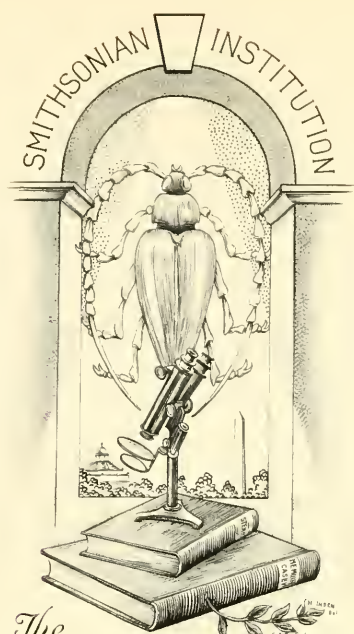




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ENTOMOLOGY

Vol. 2, pp. i-xiv, 1-902

November 30, 1917

CATALOGUE OF THE HEMIPTERA
OF AMERICA NORTH OF MEXICO

EXCEPTING THE
APHIDIDAE, COCCIDAE AND ALEURODIDAE

BY
EDWARD P. VAN DUZEE

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY

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IN

ENTOMOLOGY

CHARLES W. WOODWORTH

EDITOR

VOLUME 2

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1917

TO THE MEMORY OF THE LATE

PHILIP REESE UHLER

IN SINCERE APPRECIATION OF HIS UNREMITTING AND DIS-
INTERESTED LABOR IN ELUCIDATING AND PLACING ON A
FIRMER FOUNDATION THE STUDY OF NORTH AMERICAN
HEMIPTEROLOGY AND OF HIS UNFAILING KINDNESS AND
READY ASSISTANCE EXTENDED TO THE AUTHOR DURING
THE EARLY YEARS OF HIS STUDIES OF THESE INSECTS,
THIS WORK IS MOST RESPECTFULLY DEDICATED.

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INTRODUCTORY

The present catalogue undertakes to give a complete enumeration of all the described Hemiptera, to and including the Chermidae, recorded from or known to occur in America north of the southern boundary of the United States. The families Aphididae, Coccidae and Aleurodidae have been omitted, largely because of the fact that I have made no careful study of these groups and feel that others are more competent to work out their synonymy. On account of their different habits and the special methods required in observing, collecting and preserving them, this omission is of little moment to students of the higher families of the Hemiptera.

The first draft of this catalogue was completed more than two years ago and as there was then no prospect of its early publication, a Check List giving the classification, synonymy and dates for all the species was prepared and, through the kindness of Mr. Wm. T. Davis of New York, was published by the New York Entomological Society. The introductory matter given below is largely a repetition of that published in the Check List and the numbering of the species in this catalogue has been made to correspond with that in the Check List to facilitate ready reference from one to the other, the species added since the publication of that list having been interpolated in fractional form. A summary of the rules used by me in working out the nomenclature of the catalogue was published in March, 1916, in the *Annals of the Entomological Society of America* and need not be repeated here.

While perhaps less philosophical, it has seemed best to begin this catalogue with the higher forms so as to bring it more into line with such recent works as the Oshanin, Kirkaldy, and Lethierry and Severin catalogues. For the Heteroptera the Reuter classification of 1912 has been followed very closely, but it has seemed desirable to reduce a number of his families to subfamily rank. Unfortunately the Homoptera have not been worked out with equal thoroughness, but Hansen's studies seem to show conclusively that the Fulgoridae, which I prefer for the present to retain as a single family, are the highest and most specialized of the Homoptera. In this respect also the Cicadidae appear to approach the Fulgoridae, but their develop-

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ment has been along a different line. It might be more logical to consider the Membracidae as a mere subfamily of the Jassidae, and they are retained here as a separate family more out of deference to common usage. A critical study of the whole of the Homoptera may result in dividing the Fulgoridae into two or possibly three distinct families and in leaving the Membracidae and perhaps the Bythoscopidae, Cicadellidae and Jassidae as distinct families under a superfamily Cicadelloidea. Kirkaldy divides his Fulgoroidea into eight distinct families, but gives no characters from which we can judge of the value of his scheme and his divisions certainly are of unequal value. Kirkaldy also claims that the Gyponini have very little to do with the Cicadellini but he fails to give his reasons, merely rejecting the position of the ocelli as a character of any real importance. But this character certainly has more value than the horizontal extension of the head and I propose to retain my classification of 1892 until some reason is advanced for rejecting it, merely changing the value of the several groups. I might add that the division Dorydiaria is sufficiently distinguished by the venation, although the flattening of the head is characteristic, and that the Bythoscopinae in their larval and other characters are allied to the Membracidae and serve to connect them with the Jassidae.

In selecting the references to be included in this catalogue it has been my object to take such as will show the history and standing, not only of each species and genus but also of the higher groups. Here for the first time the history and synonymy of the group names higher than the genus have been worked out with as great care and accuracy as in the case of the genera and species. If this effort will help in any measure to stabilize family nomenclature, it will well repay the time and space required. I have rejected as illogical and contrary to the accepted rules of zoological nomenclature Kirkaldy's system of founding the family name on the oldest genus-name included and have adopted Dr. Horvath's system by which we give priority to family names the same as we do to the names of genera and species; and, what is really the foundation of the system, we give to each family a type genus and the family name follows that of the type genus through all its subsequent changes. For example the family Gelastocoridae was founded as Galgulidae with *Gaugulus* as type genus. When it was found that the name *Galgulus* was pre-occupied and the genus was renamed *Gelastocoris* the family name automatically became Gelastocoridae, instead of taking the next oldest

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name, Mononychidae, which would have changed the type of the family to Mononyx. Logically, we have no more right to change the type of a family than of a genus or a species.

Every one who has given the matter any study will agree that most changes in generic names come from one of two causes; changes in the accepted dates of the books in which they were published and diversity of method in the selection of geno-types. In the matter of dates I have accepted no changes unless I could feel satisfied that they were justified. There will be no uniformity in this matter until there is an official bibliography with all dates validated by an international committee, a consummation that I fear is still far in the future. Regarding geno-types I have followed the International Rules as closely as I could interpret them. As a basis I have accepted the type fixations in five of the earlier works in all cases where but one type was named. Where two or more were named I have rejected them all and accepted the next valid single fixation. The five works referred to are: Lamarck, *Système des animaux sans vertèbres*, 1801; Fabricius, *Systema Rhynchotorum*, 1803; Latreille, *Considérations générales sur l'ordre naturel des animaux*, 1810; Laporte, *Essai d'une classification systématique de l'ordre des Hémiptères*, 1832; and Westwood, *Introduction to the modern classification of insects: Synopsis*, at end of vol. 2, 1840. These type-fixations have, I think, been accepted by Dr. Reuter and other European Hemipterists and probably are open to as few objections as any cases where the type species is not named in so many words in connection with each individual genus. All these writers, with the possible exception of Fabricius, stated that they were naming types for the genera and we have Fallén for authority that he was doing so. Kirkaldy claims that Fabricius indicated types for his genera in the *Entomologica Systematica* in the same way that he did in his *Systema Rhynchotorum*, but he really made such a designation by repeating generic characters in his specific descriptions in the case of but very few hemipterous genera, and then without italics, and in his later work he omitted some of these and changed others; hence there seems to be no valid reason why we should accept these earlier ones as type-fixations.

I have here accepted the classification of geno-types devised by Mr. O. F. Cook and published in May, 1914, in the *American Naturalist*. These terms are:

Orthotype, a type by original designation.

Haplotype, a type by single reference (only species).

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Logotype, a type by subsequent designation.

Pseudotype, an erroneous type designation.

In the terminology I have uniformly used the endings *idae* for families, *inae* for subfamilies, *ini* for tribes and *aria* for divisions or subtribes, thus changing the terminations of divisions where they had been used as tribes by Reuter and others. All genera have been considered as *nomina nuda* until a type can be fixed, thus invalidating all genera founded without the mention of a described species. These become valid and date from the naming of an included species that is recognizable and available as type. On the contrary a genus published in a systematic work, without a description but with distinct indication that it was established for a previously described valid species, has been accepted. This, however, does not include mere catalogue names unless they are given to replace a preoccupied name. The changes from either of these causes are very few in the North American Hemiptera. The most important are the use of Tibicen for Cicada of Stål and most recent writers, Meadorus Mulsant and Rey for Elasmucha Stål and Corecoris Hahn for Spartocera Laporte. The new genera established in the first part of Fieber's Die europäischen Hemiptera published in 1860 are *nomina nuda* there and are not recognized until they appear in the later pages with the mention of a species. Amyot's monomials, validated later by Kolenati, have been credited to the latter author and date from the publication of his descriptions.

I might add that priority, whether in the name of a species, genus or of a higher group, has been strictly followed throughout this catalogue so far as such priority was susceptible of proof.

No attempt has been made to include every published reference to each species, but I have tried not to omit one giving a useful description or figure or one that is of interest in extending the geographical range of the species. All references effecting the synonymy and history of the species, genus or family have been included. Our knowledge of the distribution of our species is still too fragmentary to allow the satisfactory naming of a "habitat" so I have contented myself with recording, by states only, the known or published localities of capture.

It has been my endeavor within each genus to arrange the species systematically so as to show their relationships. But in the genus Aretocorixa this was impossible and in certain other genera it has been but imperfectly accomplished.

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As one important object of this catalogue is to show the history of each name, all references have been arranged strictly in chronological order and, in the case of species, the genus in which it was placed by each author is given if it differs from the one here adopted. In the case of names higher than genera, the original form used has been appended to each reference if it differs from that here employed, and the category is also given where different.

Preoccupied names are marked by a ||.

Names cited in error by a †.

Emendations by a ‡.

Clerical errors by a §.

Nomina nuda by a ¶.

The following names are proposed for the first time in this catalogue:

Fitchiella for *Naso* Fitch.

Empoa querei var. **gillettei** for var. *bifasciata* (G. & B.)

Since the publication of the Check List in June, 1916, 263 species have been added to our North American list, of which sixteen, mostly *Chermidae*, are forms overlooked in the preparation of that list, and of the remaining 247 a few are exotic forms recently recognized from our territory, the balance being apparently valid new species. Ten of the species included in the Check List have since been sunk as synonymous of others, leaving a net gain of 253 species and making the total number listed in this catalogue, 3198 accepted species.

It will be noted that the original form of each name has been used here, except where a typographical error is evident. This has not been done with the idea of imposing upon our students the use of improperly formed words. In each case all published emendations have been given and each student is at liberty to use such emendations as in his judgment may seem best.

The table of additions and corrections was made up from the last proof sent me from the printers and it is quite possible that a few of the corrections included will be found to have been made on the final sheets.

An adequate recognition of the assistance received during the preparation of this catalogue would embrace a wide circle of friends and correspondents who have kindly sent me suggestions and corrections. These have contributed much toward the accuracy and value of the work and to them I wish to extend my sincere thanks. Special acknowledgments are due to Professor C. W. Woodworth

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of the University of California, to Dr. Barton W. Evermann, Director of the California Academy of Sciences, whose kind consideration has greatly lightened the labor of the final preparation and printing of this work, and to Dr. E. Bergroth of Turtola, Finland, for most valuable synonymical and bibliographical information.

EDWARD P. VAN DUZEE.

SAN FRANCISCO, CALIFORNIA,
October 12, 1917.

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Amyot and Serville, Hémiép., p. 1, 1843.
 Proboscidea Scopoli, Ent. Carn., p. 112, 1763.
 Ryngota Fabricius, Syst. Ent., p. 673, 1775.
 Fabricius Ent. Syst., iv, p. 1, 1794.
 †*Rhyngota* Fabricius, Syst. Rhynq., p. iii, 1803.
 †*Rhynchota* Burmeister, Handb. d. Ent., ii, p. 45, 1835.
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Scutelleriens Brullé, Hist. Nat. des Ins., ix, p. 389, 1835.
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 Costa, Cimic. Reg. Neap., Cent. i, p. 55, 1838, *Scutellerini*.
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 Spinola, Essai sur les Hémip., p. 357, 1840, *Scutelleroides*.
 Blanchard, Hist. des Ins., Hémip., p. 155, 1840, *Scutellerites*.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop. p. 124, 1840, Subfam. *Scutellerides*.
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Orthotype *antillarum* Kirk.

- Fabricius, Syst. Rhyng., p. 128, 1803.
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Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 41, 1889. [*tata* H.S.]

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 Germar, Zeit. f. Ent., i, p. 92, 1839, *Pachycoris*.
 Schjodte, Kroy. Nat. Tidsskr., iv, p. 292, 1842, *Pachycoris*.
 Walker, Cat. Heter., i, p. 48, 1867, *Pachycoris*.
 Stål, Hemip. Fabr., i, p. 13, 1868.
 Stål, Enum. Hemip., i, p. 4, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 13, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 11, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 47, 1904.
 Localities: Fla. (West Indies, Mexico.)

2. *Tetyra robusta* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 383, 1897.
 Localities: Ariz. (Mexico.)

3. *Tetyra bipunctata* (H.S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 87, fig. 420, 1839, *Pachycoris*.
 Dallas, List of Hemip., i, p. 36, pl. 1, fig. 4, 1851, *Macraular*.
 Stål, Enum. Hemip., i, p. 4, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 13, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 11, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 47, 1904.
 Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
 Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 48, 1912.
tristis (Uhler), Proc. Ent. Soc. Phila., i, p. 21, 1861, *Macraular*.
 Localities: N. Y., N. J., Md., D. C., N. C., Texas. (Mexico.)

Genus *Pachycoris* Burm.

Logotype *torridus* Scop.

Burmeister, Handb. d. Ent., ii, p. 391, 1835.
 Hahn, Wanz. Ins., iii, p. 26, 1835.
 Germar, Zeit. f. Ent., i, p. 80, 1839.
 Blanchard, Hist. des Ins., Hémip., p. 155, 1840.
 Amyot and Serville, Hémip., p. 37, 1843.
 Spinola, Tavola Sinot, p. 29, 1850.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 492, 1867.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., pp. 16, 25, 1868.
 Stål, Enum. Hemip., i, pp. 4, 5, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 14, 1880.
 Schouteden, Genera Ins., Fasc. 24, p. 48, 1904. (Names *torridus* Scop. type.)

4. *Pachycoris torridus* (Scop.)

Scopoli, Annus V, Hist. Nat., p. 110, 1772, *Cimex*.
 Gmelin, in Linnaeus Syst. Nat., Edn. 13, i, pt. 4, p. 2134, 1788, *Cimex*.
 Stål, Enum. Hemip., i, p. 5, 1870 (var. a. and e.).
 Berg, Hemip. Argent., p. 25, 1879.
 Distant, Biol. Centr. Am., Heter., i, p. 14, pl. 1, fig. 1, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
 Breddin, Wien. Ent. Zeit., xxv, p. 190, fig. 3, 1906.
†fabricii (Tigny), Hist. d'Ins., Edn. 2, iv, p. 290, fig. 6, 1813, *Pentatoma*.
 Burmeister, Handb. d. Ent., ii, p. 392, 1835.
 Hahn, Wanz. Ins., iii, p. 27, fig. 249, 1835.
 Germar, Zeit. f. Ent., i, p. 84, 1839.
 Blanchard, Hist. d'Ins., iv, p. 155, 1840.
 Amyot and Serville, Hémip., p. 38, 1843.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 273, 1876.

a. var. *aquila* H.S.

Herrich-Schaeffer, Wanz. Ins., v, p. 7, fig. 463, 1839.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

vars. *i* and *k*, Stål, Enum. Hemip., i, p. 6, 1870.

var. *i*, Distant, Biol. Centr. Am., Heter., i, p. 16, pl. 1, fig. 7, 1880.

b. var. *decoratus* (Perty).

Perty, Del. Anim., p. 164, pl. 33, fig. 1, 1830, *Scutellera*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 25, 1866.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

†*klugii* Herrich-Schaeffer, Wanz. Ins., iv, p. 5, fig. 347, 1839 (part).

aeneiventris (Vollenhoven), Fauna Ent. Neerl., i, p. 7, pl. 1, fig. 3, 1863.

var. *f*, *g*, *h*, Stål, Enum. Hemip., i, p. 6, 1870. [*Pocilocoris*.

Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, figs. 5, 6, 1880.

c. var. *klugii* Burm.

Burmeister, Handb. d. Ent., ii, p. 392, 1835.

Germar, Zeit. f. Ent., i, p. 85, 1839.

Amyot and Serville, Hémip., p. 38, 1843.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

Breddin, Wien. Ent. Zeit., xxv, p. 189, fig. 2, 1906.

var. *c*, Stål, Enum. Hemip., i, p. 6, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, fig. 4, 1880.

d. var. *linnaei* Westw.

Westwood, Hope Cat., i, p. 12, 1837.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

var. *a*, Stål, Enum. Hemip., i, p. 5, 1870 (part).

stallii Uhler, Proc. Am. Ent. Soc., ii, p. 159, 1863.

e. var. *schaefferi* Schout.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

†*Klugi* Herrich-Schaeffer, Wanz. Ins., iv, p. 5, fig. 348, 1839 (part).

var. *d*, Stål, Enum. Hemip., i, p. 6, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, figs. 2, 3, 1880.

f. var. *schousboei* (Fabr.).

Fabricius, Syst. Rhyn., p. 132, 1803, *Tetyra*.

Burmeister, Handb. d. Ent., ii, p. 392, 1835.

Germar, Zeit. f. Ent., i, p. 83, 1839.

Schjodti, in Kroyer, Nat. Tidsskr., iv, p. 288, 1842, *Tetyra*.

Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.

†*fabricii* Herrich-Schaeffer, Wanz. Ins., iv, p. 6, fig. 349, 1839.

var. *b*, Stål, Enum. Hemip., i, p. 5, 1870.

Localities: Calif. (Neotropical.)

Genus *Chelysoma* Bergr.

Logotype *variabilis* (H.S.)

Bergroth, Rev. d'Ent., x, p. 235, 1891. (n.n. for *Orsilochus* Stål.)

Schouteden, Genera Ins., Fasc. 24, p. 52, 1904. (Names *variabilis* type.)

Kirkaldy, Cat. Hemip., i, p. 283, 1909. (Names *variabilis* type.)

||*Orsilochus* Stål, Of. Vet. Akad. Forh., xxiv, p. 493, 1867.

Stål, Enum. Hemip., i, p. 9, 1870. (Systematic.)

Distant, Biol. Centr. Am., Heter., i, p. 16, 1880.

5. *Chelysoma guttatum* (H.S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 4, fig. 345, 1839, *Pachycoris*.

Germar, Zeit. f. Ent., i, p. 96, 1839, *Pachycoris*. (Description.)

Stål, Enum. Hemip., i, p. 9, 1870, *Orsiolchus*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904, *Orsiolchus*.

Schouteden, Genera Ins., Fasc. 24, p. 52, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.

Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.

Localities: N. C., S. C., Ga., Fla.

Genus *Camirus* Stål

Logotype *conicus* Germ.

Stål, Rio Jan. Hemip., ii, p. 57, 1862.

Distant, Biol. Centr. Am., Heter., i, p. 24, 1880, [pseudotype.]

Schouteden, Genera Ins., Fasc. 24, pp. 43, 55, 1904. (Names *porosus* Germ.)

|| *Zophoëssa* Dallas, List of Hemip., i, p. 43, 1851. (Haplotype *porosus*

Stål, Stet. Ent. Zeit., xxiii, p. 83, 1862.

[Germ.)

Stål, Of. Vet. Akad. Forh., xxiv, p. 491, 1867.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 15, 1868.

6. *Camirus porosus* (Germ.)

Germar, Zeit. f. Ent., i, p. 108, 1839, *Pachycoris*.

Dallas, List of Hemip., i, p. 43, 1851, *Zophoëssa*.

Stål, Enum. Hemip., i, pp. 17, 1870, *Zophoëssa*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Zophoëssa*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.

Schouteden, Genera Ins., Fasc. 24, p. 55, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.

pullatus Distant, Biol. Centr. Am., Heter., i, p. 316, pl. 30, fig. 9, 1889.

Localities: Fla., Texas, Calif. (Nearctic.)

7. *Camirus consocius* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Zophoëssa*.

Schouteden, Genera Ins., Fasc. 24, p. 55, 1904.

Barber, Brookl. Inst., Sci. Bul., i, p. 256, 1906.

Localities: Texas, Ariz., Calif.

Genus *Acantholoma* Stål

Haplotype *denticulata* Stål

Stål, Of. Vet. Akad. Forh., xxiv, p. 491, 1867 (invalid here).

Stål, Enum. Hemip., i, p. 17, 1870 (valid here).

Schouteden, Genera Ins., Fasc. 24, pp. 43, 55, 1904.

8. *Acantholoma denticulata* Stål

Stål, Enum. Hemip., i, p. 17, 1870.

Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 16, 77, 1904.

Schouteden, Genera Ins., Fasc. 24, p. 56, pl. 4, fig. 2, 1904.

Localities: Ind., Ill., Kan.

Genus *Diolcus* Mayr.

Logotype *irroratus* (Fabr.)

Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 904, 1864.

Stål, Of. Vet. Akad. Forh., xxiv, p. 493, 1867.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 26, 1868.

[type.]

Schouteden, Genera Ins., Fasc. 24, pp. 44, 56, 1904. (Names *irroratus* Fabr.)

9. *Diolcus irroratus* (Fabr.)

- Fabricius, Syst. Ent., p. 699, 1775, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 88, 1794, *Cimex*.
 Fabricius, Syst. Rhyn., p. 136, 1803, *Tetyra*.
 Germar, Zeit. f. Ent., i, p. 99, 1839, *Pachycoris*.
 Herrich-Schaeffer, Wanz. Ins., v, p. 55, fig. 500, 1839, *Pachycoris*.
 Schjodte, in Kroyer, Nat. Tidskr., iv, p. 297, 1842, *Pachycoris*.
 Guérin, in Sagra, Hist. de l'Is. de Cuba, Ins., p. 362, 1857, *Scutellera*.
 Dallas, List of Hemip., i, p. 37, 1851, *Symphylus*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
 Stål, Enum. Hemip., i, p. 10, 1870.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 6, 1907.
nebulosa (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 32, pl. Hémipt. 5, fig.
 Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris*. [1, 1805, *Scutellera*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
hebraica (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 81, pl. Hémipt. 7, fig.
 Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris*. [1, 1805, *Scutellera*.
cordigera (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 234, pl. Hémipt. 5b,
 [fig. 7, 1805, *Scutellera*.
 Mayr, Verh. Zool.-Bot., Ges. Wien, xiv, p. 905, 1864.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
flavescens (Westwood), Hope Cat., i, p. 12, 1837, *Pachycoris*.
 Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
 Localities: Fla. (West Indies.)

10. *Diolcus chrysorrhoeus* (Fabr.)

- Fabricius, Syst. Rhyn., p. 138, 1803, *Tetyra*.
 Germar, Zeit. f. Ent., i, p. 95, 1839, *Pachycoris*.
 Herrich-Schaeffer, Wanz. Ins., v, p. 6, fig. 460, 1839, *Pachycoris*.
 Uhler, in Say's Compl. Works, i, p. 310, 1859, *Pachycoris*.
 Walker, Cat. Heter., i, p. 46, 1867, *Pachycoris*.
 Stål, Enum. Hemip., i, p. 11, 1870.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
viridipunctata (Say), Heter. N. Harm., p. 1, 1831; Fitch reprint, p. 755,
 Say, Compl. Writ., i, p. 310, *Scutellera*. [Scutellera.
 Localities: S. C., Fla., Miss., Texas.

Genus *Stethaulax* Bergr.Haplotype *marmoratus* (Say)

- Bergroth, Revue d'Ent., x, p. 235, 1891. (n.n. for *Aulacostethus* Uhler.)⁴
 Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
 Kirkaldy, Cat. Hemip., i, p. 279, 1909.
Aulacostethus Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 93, 1871; xix,
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904. [p. 367, 1878.

11. *Stethaulax marmoratus* (Say)

- Say, Heter. N. Harm., p. 2, 1831; Fitch reprint, p. 755; Compl. Writ., i, 310, [Tetyra.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 94, 1871; xix, p. 368, 1878, Aulac-
 Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 12, 76, 1904. [stethus.
 Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 49, 1912.
simulans (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876, *Aulacostethus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 13, 76, 1904.
 Localities: N. Y., N. J., Md., N. C., Ga., Texas, Calif.

Genus *Sphyrocoris* Mayr.Haplotype, *obliquus* (Germ.)

- Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 904, 1864.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip. pp. 16, 26, 1868.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 58, 1904.

12. *Sphyrocoris obliquus* (Germ.)

- German, Zeit. f. Ent., i, p. 94, 1839, *Pachycoris*.
 Herrich-Schaeffer, Wanz. Ins., v, p. 54, fig. 491, 1839, *Pachycoris*.
 Dallas, List Hemip., i, p. 35, 1851, *Pachycoris*.
 Stål, Stet. Ent. Zeit., xxiii, p. 81, 1862, *Homaemus*.
 Walker, Cat. Heter., i, p. 48, 1867, *Pachycoris*.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 26, 1868.
 Stål, Enum. Hemip., i, p. 15, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 273, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 21, 1880.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 224, 1894.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 44, 1899.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 59, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
 Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.
dehincatus (Walker), Cat. Heter., i, p. 48, 1867, *Pachycoris*.
 Localities: Fla., Texas, Ariz., Calif. (West Indies, Mexico.)

13. *Sphyrocoris punctellus* (Stål)

- Stål, Stet. Ent. Zeit., xxiii, p. 81, 1862, *Homaemus*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867.
 Stål, Enum. Hemip., i, p. 15, 1870.
 Distant Biol. Centr. Am., Heter., i, p. 21, pl. 2, fig. 5, 1880.
 Schouteden, Genera Ins., Fasc. 24, p. 59, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
 Localities: Ariz. (Mexico.)

Genus *Homaemus* Dall.Logotype *exilis* (H.S.) = *acneifrons* (Say)

- Dallas, List Hemip., i, p. 36, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 494, 1867.
 Stål, Enum. Hemip., i, p. 14, 1870. (Systematic.)

- Distant, Biol. Centr. Am., Heter., i, p. 19, 1890.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 13, 1904. (Key.)
 Schouteden, General Ins., Fasc. 24, pp. 45, 59, 1904. (Names *aeneifrons* Say
 Zimmer, Univ. Neb. Studies, xi, p. 239, 1912. [type.]

14. *Homaemus aeneifrons* (Say)

- Say, Long's Exp. to St. Peter's River, ii, p. 299, 1824, *Scutellera*.
 Say, Compl. Writ., i, p. 199, *Scutellera*.
 Stål, Enum. Hemip., i, p. 15, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876; iii, p. 365, 1877; iv, p. 503.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878. [1878.
 Distant, Biol. Centr. Am., Heter. i, p. 20, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 21, 1885.
 Gillette & Baker, Hemip. Colo., p. 9, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 13, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 59, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.
 Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 25, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 239, 1912.
crilis (Herrieh-Schaeffer), Wanz. Ins., iv, p. 5, fig. 346, 1839, *Pachycoris*.
 Germar, Zeit. f. Ent., i, p. 98, 1839, *Pachycoris*.
 Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md.,
 Va., Wis., Neb., Dak., Colo., N. Mex., Man., Calif., Vanc. Isd.

15. *Homaemus bijugis* Uhl.

- Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872. (Name only.)
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872. (Description.)
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876; iii, p. 365, 1877.
 Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 13, 76, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 60, pl. 5, fig. 1, 1904.
 Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.
consors Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 14, 76, 1904.
 Kirkaldy, Cat. Hemip., i, p. 279, 1909.
 Localities: Dak., Ia., Neb., Kan., Colo., Utah, N. Mex., Nev.,
 Ariz., Calif.

16. *Homaemus parvulus* (Germ.)

- Germar, Zeit. f. Ent., i, p. 107, 1839, *Pachycoris*.
 Herrieh-Schaeffer, Wanz. Ins., v, p. 54, fig. 501, 1839, *Pachycoris*.
 Dallas, List of Hemip., i, p. 36, 1851.
 Kirkaldy, Cat. Hemip., i, p. 279, 1909.
 †*grammica* (Wolff), Icon. Cimic., v, p. 172, fig. 166, 1811, *Tetyra*.
 Stål, Enum. Hemip., i, p. 14, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 19, 1880.
 Gillette & Baker, Hemip. Colo., p. 9, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 14, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 60, 1904.
 Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
 Localities: N. C., Fla., Kan., Colo., Texas, Calif.

17. *Homaemus proteus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 82, 1862.

Stål, Enum. Hemip., i, p. 15, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 20, pl. 2, figs. 3, 4, 1880.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 349, 1904.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.

Schouteden, Genera Ins., Fasc. 24, p. 60, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 255, 1906.

Localities: Texas, N. Mex., Ariz., Calif.

18. *Homaemus variegatus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 3, 1914.

Localities: Calif.

Subfamily ODONTOTARSINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872, Div. *Odontotarsaria*.

Stål, Enum. Hemip., iii, pp. 4, 26, 1873, Div. *Odontotarsaria*. (Key.)

Distant, Fauna Br. Ind., Rhyn., i, p. 67, 1902, Div. *Odontotarsaria*.

Schouteden, Genera Ins., Fasc. 24, pp. 4, 69, 1904. (Key.)

Oshanin, Verz. Palae. Hemip., i, p. 33, 1906.

Kirkaldy, Cat. Hemip., i, p. 262, 1909, Tribe *Odontotarsini*.

Zimmer, Univ. Neb. Studies, xi, p. 240, 1912, Tribe *Odontotarsini*.

Eurygastaria Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872.

Stål, Enum. Hemip., iii, pp. 4, 28, 1873 (as Division; Key).

Distant, Fauna Br. Ind., Rhyn., i, p. 68, 1902 (as Division).

Oshanin, Verz. Palae. Hemip., i, p. 40, 1906 (as Division).

Oshanin, Kat. Palae. Hemip., p. 5, 1912 (as Tribe).

Odontoscelaria Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 33, 1872 (as

Stål, Enum. Hemip., iii, pp. 4, 30, 1873 (as Division) [Division.)

Distant, Fauna Br. Ind., Rhyn., i, p. 70, 1902 (as Division).

Oshanin, Verz. Palae. Hemip., i, p. 29, 1906 (as Division).

Oshanin, Kat. Palae. Hemip., p. 4, 1912 (as Tribe).

Genus *Eurygaster* Lap.Orthotype *hottentotus* (Fabr.)

Laporte, Essai Classif. Syst. Hémip., pp. 68, 69, 1832.

Spinola, Essai sur les Hémip., p. 365, 1837 (1840).

Amyot and Serville, Hémip., p. 51, 1843.

Kolenati, Melet. Ent., iv, p. 9, 1846.

Spinola, Tavola Sinot., p. 28, 1850.

Dallas, List of Hemip., i, p. 47, 1851.

Flor, Rhyn. Livl., i, p. 84, 1860.

Fieber, Europ. Hemip., pp. 84, 368, 1861.

Stål, Hemip. Afr., i, p. 61, 1864.

Douglas and Scott, Br. Hemip., p. 64, 1865.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 16, 1868.

Stål, Of. Vet. Akad. Forh., xxix, p. 33, 1872.

Stål, Enum. Hemip., iii, p. 29, 1873.

Atkinson, Jl. Asiatic Soc. Bengal, lvi, p. 187, 1887.

Schouteden, Genera Ins., Fasc. 24, pp. 70, 71, 1904.

- †*Tetyra* Burmeister, Handb. d. Ent., ii, p. 389, 1835.
 Germar, Zeit. f. Ent., i, p. 72, 1839.
 Blanchard, Hist. des Ins., Hémip., p. 155, 1840.
 Gorski, Anal. Ent., i, p. 38, 1852. (Linn.)
Bellocoris Hahn, Wanz. Ins., ii, p. 42, 1834. (Logotype *Cimex maurus*
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840. (Cites
 [maurus as type.)
 Kirkaldy, Cat. Hemip., i, p. 270, 1909. (Names *purpurcolineatus* Rossi
 [pseudotype.)

19. **Eurygaster alternatus** (Say)

- Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra*.
 Germar, Zeit. f. Ent., i, p. 74, 1839, *Tetyra*.
 Dallas, List of Hemip., i, p. 47, 1851.
 Stål, Enum. Hemip., i, p. 18, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876.
 Uhler in Wheeler's Rept. Chief. Eng., for 1877, p. 1322.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 503, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 23, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 18, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 72, 1904.
 Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.
nicoletianensis Provancher, Nat. Can., iv, p. 73, 1872.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ill.,
 Neb., Dak., Mont., Colo., N. Mex., Utah, Calif., Vanc. Isd.

20. **Eurygaster shoshone** Kirk.

- Kirkaldy, Cat. Hemip., i, p. 273, 1909. (n.n. for *carinatus* Van D.)
carinatus Van Duzee, Trans. Am. Ent. Soc., xxx, p. 18, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 72, 1904.
 Banks, Cat. Neare. Heter., p. 97, 1910.
 Localities: Idaho, Utah, Nevada.

Genus **Fokkeria** Schout.

Haplotype *crassa* Schout. = *producta* (Van D.)

- Schouteden, Ann. Soc. Ent. Belg., xlviii, p. 301, 1904.
 Schouteden, Genera Ins., Fasc. 24, p. 83, 1904.

21. **Fokkeria producta** (Van D.)

- Van Duzee, Trans. Am. Ent. Soc., xxx, p. 20, 1904, *Odontoscelis*.
 Schouteden, Genera Ins., Fasc. 24, p. 84, pl. 5, fig. 1, 1904.
crassa Schouteden, Ann. Soc. Ent. Belg., xlviii, p. 301, 1904.
 Localities: Colo.

Genus **Phimodera** Germ.

Logotype *galgulina* H.S.

- Germar, Zeit. f. Ent., i, p. 60, 1839.
 Amyot and Serville, Hémip., p. 56, 1843.
 Gorski, Anal. Ent., i, p. 49, 1852.

Flor, Rhyn. Livl., i, p. 80, 1860.

Fieber, Europ. Hemip., p. 374, 1861.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 19, 1868.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872.

Stål, Enum. Hemip., iii, p. 27, 1873.

Schouteden, Genera Ins., Fasc. 24, p. 84, 1904. (Names *galgulina* H.S. type.)

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 9, 1906. (Monograph.)

22. *Phimodera torrida* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 17, pl. 1, fig. 3; pl. 2, fig. 3, 1906.

Locality: Nevada.

23. *Phimodera torpida* Walk.

Walker, Cat. Heter., i, p. 75, 1867.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.

Schouteden, Genera Ins., Fasc. 24, p. 85, 1904.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 22, pl. 1, fig. 7; pl. 2, fig. 8, 1906.

a. var. *fuscotestacea* Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 23, 1906.

b. var. *obscura* Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 23, 1906.

Localities: Sask., Colo.

24. *Phimodera binotata* (Say)

Say, Long's 2d Exp., ii, p. 298, 1824; Compl. Writ., i, p. 198, *Scutellera*.

Uhler, Check List, p. 2, 1886.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 42, 1906.

Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.

Localities: Neb., Colo.

Genus *Euptychodera* Berger.

Haplotype *corrugata* (Van D.)

Bergeroth, Mem. Soc. Ent. Belg., xv, p. 143, 1908. (n.n. for *Ptychodera* Reut.)

||*Ptychodera* Reut., Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 44, 1906.

25. *Euptychodera corrugata* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904, *Phimodera*.

Schouteden, Genera Ins., Fasc. 24, p. 85, 1904, *Phimodera*.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 45, pl. 1, fig. 20; pl. 2, figs. 20,

[21, 1906, *Ptychodera*.

Localities: Colo., Utah.

Genus *Vanduzeeina* Schout.

Orthotype *balli* (Van D.)

Schouteden, Genera Ins., Fasc. 24, p. 85, 1904.

26. *Vanduzeeina balli* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 19, 1904, *Odontoscelis*.

Schouteden, Genera Ins., Fasc. 24, p. 86, 1904.

Localities: Colo., N. Mex., Calif.

Family CYDNIDAE (Billbg.)

- Billberg, Enum. Ins., p. 70, 1820, *Cydnides*.
 Schioedte, in Krøyer, Nat. Tidskr., ii, p. 454, 1849, *Cydnini*.
 Spinola, Tavola Sinot., pp. 30, 36, 1850. Subfam. *Cydnoidae*.
 Fieber, Europ. Hemip., pp. 27, 361, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862, *Cydnida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 614, 1870, *Cydnina*.
 Stål, Enum. Hemip., v, p. 17, 1876, Subfam. *Cydnina*.
 Berg, Hemip. Argent., p. 9, 1879, Subfam. *Cydnina*.
 Distant, Biol. Centr. Am., Heter., i, p. 1, 1880, *Cydninae*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 81, 1902, Subfam. *Cydninae*.
 Kirkaldy, Can. Ent., xl, p. 359, 1908.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 6, 1911.
 Oshanin, Kat. Palae., Hemip., p. 1, 1912.
Thyreocoridae Kirkaldy, Can. Ent., xl, p. 364, 1908.
 Kirkaldy, Cat. Hemip., i, p. xxxix, 1909.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A. No. 6, pp. 45, 61, 1912.

Subfamily THYREOCORINAE (Van D.)

- Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 5, 1907, Family *Thyreocoridac*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909, Family *Thyreocoridae*.
 Kirkaldy, Cat. Hemip., p. xxxix, 1909, Tribe *Thyreocorini*.
 Banks, Cat. Neare. Hemip., p. 101, 1910, Family *Thyreocoridae*.
Corimelaenidae Uhler, in Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
 Uhler, in Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876; iii, p. 365, 1877;
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878. [iv, p. 503, 1878.
 Uhler, Check List, p. 2, 1886.
 Lethierry and Severin, Cat. Génl. Hémipt., i, p. 11, 1893.

Genus *Thyreocoris* Schr.

Logotype *scarabacoides* (Linn.)

- Schrank, Fauna Boica, p. 46, 1801.
 Hahn, Wanz. Ins., ii, p. 46, 1834.
 Spinola, Essai sur les Hémipt., p. 369, 1840.
 Kolenati, Melet. Ent., iv, p. 8, 1846.
 Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.
 Stål, Hemip. Fabr., i, p. 8, 1868.
 Stål, Enum. Hemip., v, p. 22, 1876.
 Berg, Hemip. Argent., p. 16, 1879.
 Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 19, 1885.
 Oshanin, Verz. Palae. Hemip., i, p. 6, 1906.
 Oshanin, Kat. Palae. Hemip., p. 1, 1912. (Names *scarabacoides* Linn. type.)
 Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
 †*Odontoseclis* Burmeister, Handb. d. Ent., ii, p. 385, 1835.
 Germar, Zeit. f. Ent., i, p. 36, 1839.
 Herrich-Schaeffer, Wanz. Ins., v, p. 33, 1839.
 Blanchard, Hist. des Ins., Hémipt., p. 161, 1840.

- Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840. (Names Spinola, Tavola Sinot., p. 29, 1850 (in part). [*scarabacoides* pseudotype.]
 Gorski, Anal. Ent., i, p. 55, 1852. (Subdiv. II.)
Corimelaena White, Mag. Nat. Hist., n.s. iii, p. 539, 1839. (*Orthotype*
 Dallas, List of Hemip., i, p. 56, 1851. [*lateralis* Fabr.]
 Dohrn, Cat. Hemip., p. 5, 1859.
 Stål, Rio Jan. Hemip., i, p. 8, 1860.
 Fieber, Europ. Hemip., p. 364, 1861.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 10, 1868.
 Uhler in Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876.
 Uhler, Check List, p. 2, 1886.
 Lethierry and Severin, Cat. Génl. Hémip., i, p. 11, 1893.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 3, 1904. (Key.)
 †*Coromelas* Amyot and Serville, Hemip., p. 67, 1843.
 Flor, Rhyn. Livl., i, p. 149, 1860.
Galgupha Amyot and Serville, Hemip., p. 68, 1843.

27. *Thyreocoris ater* (Am. & Serv.)

- Amyot and Serville, Hémip., p. 68, 1843, *Galgupha*.
 Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 48, 1864.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878, *Corimelaena*.
 Uhler, Check List, p. 2, 1886, *Corimelaena*.
 Van Duzee, Can. Ent., xxi, p. 2, 1889, *Corimelaena*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894.
 †*helopioides* (Wolff), Icon. Cimic., v, p. 174, fig. 168, 1811, *Tetyra*.
 †*unicolor* (Germar), Zeit. f. Ent., i, p. 37, 1839, *Odontoseclis*.
 Herrich-Schaeffer, Wanz. Ins., v, pp. 12, 34, fig. 470, 1839, *Odontoseclis*.
 Dallas, List of Hemip., i, p. 57, 1851, *Corimelaena*.
 Stål, Enum. Hemip., v, p. 23, 1876.
 Provancher, Pet. Faune Ent. Can., iii, p. 20, 1885.
 Lethierry and Severin, Cat. Génl. Hémip., i, p. 13, 1893, *Corimelaena*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 4, 1904, *Corimelaena*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 244, 1912.
 Localities: Quebec, Ont., Me., Conn., N. Y., N. J., N. C., Tenn.,
 Wise., Neb., Colo., Texas, Manitoba.
 (?*Thyreocoris unicolor* Palisot-Beauvois, p. 33, pl. 5, fig. 5, 1805, *Scutellera*.
 [“South States.”])

28. *Thyreocoris nitiduloides* (Wolff)

- Wolff, Icon. Cimic., iii, p. 98, fig. 92, 1902, *Cimex*.
 Germar, Zeit. f. Ent., i, p. 37, 1839, *Odontoseclis*.
 Herrich-Schaeffer, Wanz. Ins., v, pp. 12, 33, fig. 471, 1839, *Odontoseclis*.
 Dallas, List of Hemip., i, p. 56, 1851, *Corimelaena*.
 Uhler, in Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872, *Corimelaena*.
 Stål, Enum. Hemip., v, p. 23, 1876. [*Corimelaena*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876; iv, p. 365, 1877,
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878, *Corimelaena*.
 Distant, Biol. Centr. Am., Heter., i, p. 10, 1880.
 Lethierry & Severin, Cat. Hémip., i, p. 12, 1893, *Corimelaena*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 5, 1904, *Corimelaena*.

Zimmer, Univ. Neb. Studies, xi, p. 245, 1912.

histeroides (Say), Hemip. N. Harm., p. 2, 1831: Fitch reprint, p. 756;
[Compl. Writ., i, p. 311, *Thyreocoris*

Localities: N. Y., N. J., Pa., N. C., Mo., N. D., Neb., Kan., Colo.,
Texas.

28¹₂. **Thyreocoris rastratus** (Stål)

Stål, Rio Jan. Hemip., i, p. 8, 1860, *Corimelaena*.

Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.

Stål, Enum. Hemip., v, p. 23, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 10, pl. 3, fig. 5, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxvii, p. 343, 1901, *Corimelaena*.

Localities: Texas (Barber *in litt.*) (Neotropical.)

29. **Thyreocoris anthracinus** (Uhler)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena*.

Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.

Localities: Neb., Colo., N. Mex., Idaho, Calif., Vanc. Isd.

30. **Thyreocoris demdatus** (Uhler)

Uhler, Proc. Am. Ent. Soc., ii, p. 157, 1863, *Corimelaena*.

Localities: La.

31. **Thyreocoris niger** (Dall.)

Dallas, List of Hemip., i, p. 57, 1851, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906; pt. 2, p. 158, 1907;

Zimmer, Univ. Neb. Studies, xi, p. 245, 1912. [*Corimelaena*.

Localities: Ont., Kan., Neb., Colo., Ariz.

32. **Thyreocoris ciliatus** (Uhler)

Uhler, Proc. Am. Ent. Soc., ii, p. 156, 1863, *Corimelaena*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena*.

Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.

Localities: Fla., Neb., Kan., Colo., Utah, Ariz., Calif., Oregon.

33. **Thyreocoris coerulescens** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena*.

Distant, Biol. Centr. Am., Heter., i, p. 10, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 7, 1904, *Corimelaena*.

cyanca (Uhler), Proc. Am. Ent. Soc., ii, p. 157, 1863, *Corimelaena*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena*.

cyanconigra (Walker), Cat. Heter., i, p. 78, 1867, *Corimelaena*.

Localities: Colo., Ariz., Calif. (Mexico.)

34. **Thyreocoris lateralis** (Fabr.)

Fabricius, Syst. Rhyng., p. 142, 1803, *Tetyra*.

Wolff, Icon. Cimic., v, p. 175, fig. 169, 1811, *Tetyra*.

German, Zeit. f. Ent., i, p. 39, 1839, *Odontocelis*.

- Herrieh-Schaeffer, Wanz. Ins., v, pp. 13, 34, fig. 473, 1839, *Odontoseclis*.
 White, Mag. Nat. Hist., u.s. iii, p. 439, 1839, *Corimelaena*.
 Stål, Enum. Hemip., v, p. 23, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena*.
 Distant, Biol. Centr. Am., Heter., i, p. 11, 1880.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.
gilletti (Van Duzee), Trans. Am. Ent. Soc., xxx, p. 8, 1904, *Corimelaena*.
 Bueno & Brimley, Ent. News, xviii, p. 441, 1907, *Corimelaena*.
 Bergroth, Mém. Soc. Ent. Belg., xv, p. 139, 1908.
 Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
 Localities: Mass., R. I., N. Y., Pa., N. J., Md., D. C., N. C., Fla.,
 Ohio, Mich., Ill., Neb., Kan., Okl., Texas. (Mexico.)

35. *Thyreocoris montanus* Van D.

- Van Duzee, Ent. News, xx, p. 231, 1909.
 Zimmer, Univ. Neb. Studies, xi, p. 247, 1912.
†lateralis (Van Duzee), Trans. Am. Ent. Soc., xxx, p. 7, 1904, *Corimelaena*.
 Localities: Neb., Colo., Utah, Wy., Calif., Wash.

36. *Thyreocoris extensus* (Uhl.)

- Uhler, Proc. Am. Ent. Soc., ii, p. 155, 1863, *Corimelaena*.
 Uhler, in Hayden's Surv. Terr., Rept. for 1871 p. 393, 1872, *Corimelaena*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Corimelaena*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena*.
 Localities: Dak., Colo., Utah, N. Mex., Ariz., Calif., Oregon.

37. *Thyreocoris pulicarius* (Germ.)

- Germar, Zeit. f. Ent., i, p. 39, 1839, *Odontoseclis*.
 Herrieh-Schaeffer, Wanz. Ins., v, p. 34, 1839, *Odontoseclis*.
 Dallas, List of Hemip., i, p. 59, 1851, *Corimelaena*.
 Stål, Enum. Hemip., v, p. 23, 1876. [melaena.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876; iv, p. 503, 1878, *Cori-*
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 367, 1878, *Corimelaena*.
 Distant, Biol. Centr. Am., Heter., i, p. 11, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 21, 1885.
 Uhler, Proc. Zool. Soc. Lond., for 1894, p. 170.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894, *Corimelaena*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
 Van Duzee, Can. Ent., xli, p. 369, 1909.
 Zimmer, Univ. Neb. Studies, xi, p. 247, 1912.
marginella (Dallas), List of Hemip., i, p. 59, 1851, *Corimelaena*.
 Distant, Biol. Centr. Am., Heter., i, p. 308, pl. 30, fig. 1, 1889. [gupha.
flavomarginata (Thomas), Trans. Ill. St. Agr. Soc., v, p. 455, 1865, *Gal-*
†tibialis Uhler, Check List, p. 2, 1886, *Corimelaena*.
 Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Md., D. C., Ga.,
 Fla., Miss., La., Minn., Dak., Neb., Kan., Mo., Colo., Texas,
 Br. Am.

38. *Thyreocoris minutus* (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 155, 1863, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 76, 1904, *Corimelaena*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 5, 1907.

Localities: Fla., Texas. (West Indies.)

39. *Thyreocoris obtusus* (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena*.

Localities: Texas. (Mexico.)

40. *Thyreocoris renormatus* (Uhl.)

Uhler, Hemip. Colo., p. 11, 1895, *Corimelaena*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena*.

†*albipennis* (Uhler), Hemip. Colo., p. 10, 1895, *Corimelaena* (young).

Localities: Colo.

41. *Thyreocoris guttiger* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.

Stål, Enum. Hemip., v, p. 24, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 11, pl. 2, fig. 16, 1880.

Barber, Brookl. Inst., Sci. Bul., i, p. 255, 1906.

Osborn and Drake, Ohio Nat., xv, p. 541, 1915.

Localities: Texas. (Neotropical.)

42. *Thyreocoris sayi* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 10, 1904, *Corimelaena* (n.n. for

Zimmer, Univ. Neb. Studies, xi, p. 247, 1912. [*albipennis* Say.]

||*albipennis* Say, Heter. N. Harm., p. 2, 1831, Fitch reprint p. 756.

Say, Compl. Writ., i, p. 311.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena*.

Osborn, Ent. News, iv, p. 91, 1893, *Corimelaena*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 121, 1894, *Corimelaena*.

Localities: Neb., Colo.

Subfamily CYDNINAE (Dallas)

Dallas, List of Hemip., i, p. 109, 1851, Family *Cydnidae*.

Stål, Hemip. Afr., i, p. 18, 1864, Family *Cydnida*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876, Family *Cydnidae*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 366, 1877, Family *Cydnidae*.

[(Monograph.)

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 26, 1881, *Cydnides*. (Monograph.)

Puton, Cat. Palae. Hemip., Edn. 3, p. 8, 1886, Tribe *Cydnini*.

Uhler, Check List, p. 3, 1886, Family *Cydnidae*.

Lethierry and Severin, Cat. Génl. Hémipt., i, p. 60, 1893, Subfamily *Cydnidae*.

Kirkaldy, Fauna Hawaiian., iii, p. 172, 1902, Subfamily *Cydninae*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904, Subfamily *Cydnidae*.

Kirkaldy, Cat. Hemip., i, p. xxxix, 1909, Tribe *Cydnini*.

Banks, Cat. Nearc. Hemip., p. 98, 1910, Family *Cydnidae*.

Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.

TRIBE CYDNINI (Stål)

Stål, Hemip. Afr., i, p. 18, 1864, Subfamily *Cydnida*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 6, 1868, Subfamily *Cydnida*.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 366, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 33, 1881, *Cydnides*.
 Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.

Genus **Cyrtomenus** Am. & Serv.

Logotype *castaneus* Am. & Serv. = *mirabilis* (Perty)

- Amyot and Serville, Hémip., p. 90, 1843.
 Dallas, List of Hemip., i, pp. 110, 111, 1851.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 367, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 2, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 196, 1881.
 ‡*Cydnus* Amyot and Serville, Hemip., p. 91, 1843.

43. **Cyrtomenus teter** (Spin.)

- Spinola, Essai sur les Hémip., p. 332, 1840, *Cydnus*.
 Dallas, List of Hemip., i, p. 111, 1851.
 Distant, Biol. Centr. Am., Heter., i, p. 2, pl. 2, fig. 13, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 197, pl. 6, fig. 17, 1881.
 Banks, Cat. Neare. Hemip., p. 99, 1910.
aethiops (Amyot and Serville), Hemip., p. 92, 1843, *Cydnus*. [(male).
excavatus Distant, Biol. Centr. Am., Heter., i, p. 2, pl. 2, fig. 12, 1880
 Localities: Calif. (Neotropical.)

44. **Cyrtomenus mirabilis** (Perty)

- Perty, Del. Anim. Artic., p. 166, 1834, *Cydnus*.
 Stål, Enum. Hemip., v, p. 18, 1876.
 Berg, Hemip. Argent., p. 10, 1879.
 Distant, Biol. Centr. Am., Heter., i, p. 3, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 199, pl. 6, fig. 19, 1881.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 226, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
mutabilis (Perty), Del. Anim. Artic., pl. 33, fig. 6, 1834, *Cydnus*.
 Burmeister, Hand. d. Ent., ii, p. 375, 1835, *Cydnus*.
 Dallas, List of Hemip., i, p. 112, 1851.
 Herrieh-Schaeffer, Wanz. Ins., p. 76, 1853, *Cydnus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876, iii, p. 367, 1877.
castaneus Amyot and Serville, Hémip., p. 91, 1843.
 Stål, Enum. Hemip., v, p. 18, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 24, 1904.
crassus Walker, Cat. Heter., i, p. 147, 1867.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 227, 1899.
obtusius Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 369, 1877.
umbonatus (Berg), Hemip. Argent., p. 14, 1879, *Macrocytus*.
 Localities: N. J., S. C., Ga., Fla., Texas, N. Mex., Ariz., Calif.
 (Neotropical.)

Genus **Macroporus** Uhl.

Haplotype *repetitus* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 278, 1876, iii, p. 375, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 328, 1881.

45. *Macroporus repetitus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 279, 1876, iii, p. 375, 1877.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 329, pl. 10, fig. 46, 1881.

Localities: Md., Calif.

Genus *Homaloporus* Uhl.

Haplotype *congruus* Uhler

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 376, 1877.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 330, 1881.

46. *Homaloporus congruus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 377, 1877.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 330, pl. 10, fig. 47, 1881.

Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.

Localities: Neb., Colo., Texas.

47. *Homaloporus pangaeiformis* Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 331, pl. 11, fig. 48, 1881.

Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 151, 1906.

Localities: Texas(?). (Mexico.)

Genus *Aethus* Dall.

Logotype *indicus* (Westw.)

Dallas, List of Hemip., i, pp. 110, 112, 1851.

Stål, Hemip. Afr., i, pp. 19, 20, 1864.

Stål, Enum. Hemip., v, p. 18, 1876.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 378, 1877.

Distant, Biol. Centr. Am., Heter., i, p. 4, 1880.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 423, 1881.

†*Cydnus*, Leach in Brewster's Edinb. Encey., Am. Edn., viii, p. 710, 1832.

Fieber, Europ. Hemip., pp. 83, 363, 1861.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 9, 1868.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 145, 1882.

Lethierry and Severin, Cat. Génl. Hémip., i, p. 65, 1894.

Distant, Fauna Br. Ind., Rhyn., i, p. 90, 1902. (Cites *nigritus* as type.)

Oshanin, Verz. Palae. Hemip., i, p. 9, 1906.

Banks, Cat. Neare. Hemip., p. 99, 1910.

Oshanin, Kat. Palae. Hemip., p. 1, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 24, 1912.

Trichosternus Mulsant and Rey, Punaise de France, Pent., p. 24, 1860.

Tominotus Mulsant and Rey, Punaise de France, Pent., p. 29, 1860 (*Haplo-*

[type *signoreti* M. & S.]

Microporus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.

[(Name only.)]

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876. (Haplotype)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 373, 1877. [*obliquus* Uhl.]

Distant, Biol. Centr. Am., Heter., i, p. 8, 1880. [type *conformis* Uhl.]

Trichocoris Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 277, 1876. (*Haplo-*

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 371, 1877.

Rhytidoporus Uhler, Bul. U. S. Geol. Geog. Surv., ii, p. 380, 1877. (*Hap-*

[otype *indentatus* Uhl.]

Cryptoporus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 381, 1877. [Uhl.]

Berythora Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Cryptoporus*

48. *Aethus testudinatus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 276, 1876, *Microporus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 374, 1877, *Microporus*.
 Distant, Biol. Centr. Am., Heter., i, p. 8, pl. 2, fig. 24, 1880, *Microporus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 424, pl. 11, fig. 53, 1881.
 Localities: Ind., Colo., N. Mex., Calif. (Mexico.)

49. *Aethus conformis* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 277, 1876; iii, p. 372, 1877, *Trichocoris*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 425, pl. 11, fig. 54, 1881. [coris.
 Locality: Calif.

50. *Aethus communis* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 379, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 35, pl. 2, fig. 76, 1882.
 Barber, Brookl. Inst. Sci. Bul., i, p. 256, 1906, *Cydnius*.
 Localities: Fla., Texas. (West Indies.)

51. *Aethus indentatus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 380, 1877, *Rhytidoporus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 38, pl. 2, fig. 80, 1882.
 Localities: Fla. (West Indies.)

52. *Aethus compactus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 382, 1877, *Cryptoporus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 41, pl. 2, fig. 83, 1882.
 Localities: Texas.

53. *Aethus obliquus* (Uhl.)

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872, *Microporus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 276, 1876; iii, p. 373, 1877, *Microporus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 161, pl. 7, fig. 97, 1882, *Cydnius*.
 Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.
 ?Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912, *Cydnius*.
 Localities: N. Y.(?), Neb., Colo., Utah, Texas, Ariz., Calif., Oregon.

54. *Aethus politus* Sign.

- Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 36, pl. 2, fig. 77, 1882.
 Localities: Calif.

Genus *Pangaeus* StålLogotype *margo* (Dall.)

- Stål, Stet. Ent. Zeit., xxiii, p. 95, 1862.
 Stål, Enum. Hemip., v, p. 19, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 383, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 5, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 244, 1882, *Pangocus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 28, 1885.
 Zimmer, Univ. Neb. Studies, xi, pp. 23, 24, 1912.

55. *Pangaeus margo* (Dall.)

- Dallas, List of Hemip., i, p. 116, 1851, *Aethus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 95, 1862.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 387, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 5, pl. 2, fig. 15, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 248, pl. 8, fig. 107, 1882.
 Distant, Biol. Centr. Am., Heter., i, p. 306, 1889.
 Distant, Am. Mag. Nat. Hist., Ser. 7, iv, p. 222, 1899.
confusus Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 249, pl. 8, fig. 108, 1882.
scitus (Walker), Cat. Heter., iii, p. 535, 1868, *Aethus*.
 Localities: Ariz. (Neotropical.)

56. *Pangaeus discrepans* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 386, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 7, pl. 2, fig. 19, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 249, pl. 8, fig. 109, 1882.
 Localities: Ind., Tenn., Idaho, Colo., Texas, Calif.

57. *Pangaeus uhleri* Sign.

- Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 253, pl. 9, fig. 112, 1882.
 Bueno and Brimley, Ent. News, xviii, p. 441, 1907, *Pangaeus*.
rugifrons Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 384, 1877.
 Localities: N. C., S. C., Ga., Texas.

58. *Pangaeus bilineatus* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 315, 1825; Compl. Writ., ii, p. 242,
 [Cydnus]
 Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i,
 Dallas, List of Hemip., i, p. 119, 1851, *Aethus*. [p. 323, *Cydnus*.]
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876; iii, p. 383, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 371, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 6, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 254, pl. 9, fig. 13, 1882.
 Provancher, Pet. Faune Ent. Can., iii, p. 28, 1885.
 Barber, Brookl. Inst., Sci. Bul., i, p. 256, 1906.
 Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
 Van Duzee, Can. Ent., xlv, p. 318, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 242, 1912.
femoralis (Herrich-Schaeffer), Wanz. Ins., v, p. 98, fig. 548, 1839, *Cydnus*.
 [robertsoni Uhler MS] Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878.
 Localities: Quebec, Mass., Conn., N. Y., N. J., Pa., Md., N. C.,
 Ala., Okl., Texas. (Mexico.)

59. *Pangaeus spangbergi* Sign.

- Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 259, pl. 9, fig. 116, 1882.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
 Localities: Texas, Ariz.

60. *Pangaeus piceatus* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862.
 Stål, Enum. Hemip., v, p. 19, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876; iii, p. 388, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 5, pl. 2, fig. 18, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 262, pl. 9, fig. 120, 1882.
 Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.
insularis (Dallas), List of Hemip., i, p. 120, 1851, *Aethus*.

tenuis (Walker), Cat. Heter., i, p. 151, 1867, *Aethus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 390, 1877.

Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 221, 1899.

parilis (Walker), Cat. Heter., i, p. 153, 1867, *Aethus*

Localities: Texas, N. Mex., Ariz., Calif.

Genus **Geotomus** Muls. & Rey.

Logotype *punctulatus* Costa.

Mulsant and Rey, Pnnaise de Fr., Pent., p. 34, 1866.

Signoret, Ann. Soc. Ent. Fr. Ser. 6, iii, p. 34, 1883.

Distant, Biol. Centr. Am., Heter., i, p. 307, 1889.

Lethierry and Severin, Cat. Génl. Hémip., i, p. 71, 1893.

Distant, Fauna Br. Ind., Rhyn., i, p. 98, 1902.

Zimmer, Univ. Neb. Studies, xi, pp. 23, 24, 1912. [type *elongatus* Uhl.]

Melanaethus Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 280, 1876. (Haplo-

Alonips Signoret, Ann. Mus. Civ. Genoa, xvi, p. 653, 1881.

61. **Geotomus robustus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 390, 1877, *Melanaethus*.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 59, pl. 4, fig. 168, 1883.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.

Zimmer, Univ. Neb. Studies, xi, p. 242, 1912.

Localities: Mass., N. J., Pa., Md., Ga., Fla., Neb.

62. **Geotomus pennsylvanicus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 207, pl. 4, fig. 169, 1883 (n.n. for
[*picinus* Uhl.]

picinus (Uhler), Bul. U. S. Geol. Geog. Surv., iii, p. 391, 1877, *Melanaethus*.

Localities: Pa., Ga.

63. **Geotomus parvulus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 208, pl. 4, fig. 170, 1883 (n.n. for
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906. [*elongatus* Uhl.]

elongatus (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 280, 1876, *Melanaethus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 392, 1877, *Melanaethus*.

Localities: Ariz., Calif.

64. **Geotomus uhleri** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 211, pl. 5, fig. 174, 1883.

Locality: "N. Am."

65. **Geotomus punctatissimus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 216, pl. 5, fig. 180, 1883.

Locality: Sitka.

66. **Geotomus subglaber** (Walk.)

Walker, Cat. Heter., i, p. 150, 1867, *Aethus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 394, 1877, *Melanaethus*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 223, 1899.

Locality: "N. Am."

Genus **Amnestus** Dall.Haplotype *spinifrons* Say

- Dallas, List of Hemip., i, pp. 110, 126, 1851.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 307, 1868.
 Stål, Enum. Hemip., v, p. 21, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 369, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 367, 1883.
 Distant, Biol. Centr. Am., Heter., i, p. 307, 1889.
 Zimmer, Univ. Neb. Studies, xi, pp. 241, 242, 1912.
Mayoa Stål, Rio Jan. Hemip., i, p. 13, 1860. (Logotype *cribratus* Stål.)

67. **Amnestus spinifrons** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 316, 1825; Compl. Writ., ii, p. 242.
 Dallas, List of Hemip., i, p. 126, pl. 3, fig. 2, 1851. [*Cydnius*.]
 Stål, Enum. Hemip., v, p. 21, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 370, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 367, pl. 10, fig. 192, 1883.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894.
 Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
 Localities: Mass., N. Y., N. J., Pa., Ga., Md., Mich., Ind., Ill.,
 Neb., Kan., Texas.

68. **Amnestus pusillus** Uhler.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 278, 1876; iii, p. 371, 1878.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 372, pl. 10, fig. 197, 1883.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 226, 1894.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 25, 1904.
 Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
 †*subferrugineus* Gillette & Baker, Hemip. Colo., p. 11, 1895.
 Localities: N. H., N. Y., N. J., Pa., Fla., Miss., Tenn., Ind., Iowa,
 Neb., Kan., Colo.

69. **Amnestus pallidus** Zimm.

- Zimmer, Can. Ent., xlii, p. 166, 1910 (misspelled *Amnecetus*).
 Locality: Neb.

TRIBE **SEHIRINI** (Stål)

- Stål, Hemip. Afr., i, p. 18, 1864, Subfamily *Schirida*.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 10, 1868, Subfamily *Schirida*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 396, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 521, 1883, Groupe *Schiridea*.
 Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.

Genus **Lobolophus** Bergr.Haplotype *anthracinus* (Uhler.)

- Bergroth, Rev. d'Ent., x, p. 235, 1891 (n.n. for *Lobonotus* Uhler.).
 „*Lobonotus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 395, 1877.
 Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 529, 1883.
 Lethierry and Severin, Cat. Génl. Hémipt., i, p. 77, 1893.
 Banks, Cat. Neare. Hemip., p. 100, 1910.

70. *Lobolophus anthracinus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 395, 1877, *Lobonotus*.
 Distant, Biol. Centr. Am., Heter., i, p. 9, pl. 4, fig. 7, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 529, pl. 16, fig. 208, 1883.
 Localities: Texas. (Mexico.)

Genus *Sehirus* Am. and Serv.

Logotype *morio* (Linn.)

- Amyot and Serville, Hémip., p. 96, 1843.
 Dallas, List of Hemip., i, p. 127, 1851.
 Fieber, Europ. Hemip., p. 366, 1861.
 Mulsant and Rey, Punaise de Fr., Pent., p. 47, 1866.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 396, 1877.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 51, 1884.
 Oshanin, Kat. Palae. Hemip., p. 3, 1912. (Names *morio* Linn. type.)
Tritomegas Amyot and Serville, Hémip., p. 98, 1843. (Logotype *bicolor*
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 50, 1884. [Linn.]
Legnotus Schiodte in Kroyer's Nat. Tidsskr., ii, p. 464, 1849.
Canthophorus Mulsant and Rey, Punaise de Fr., Pent., p. 54, 1866. (Logo-
 Stål, Enum. Hemip., v, p. 22, 1876. [type *dubius* Scop.)
 Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 55, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 27, 1885.
Adomerus Mulsant and Rey, Punaise de Fr., Pent., p. 66, 1866. (Haplo-
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 46, 1884. (type *biguttatus* Linn.)
Lalervis Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 48, 1884. (Haplotype
 [expansa Sign.)

71. *Sehirus cinctus* (P. B.)

- Palisot-Beauvois, Ins. Rec. Afr. Am., p. 114, pl. Hémip. 8, fig. 7, 1805,
 Stål, Hemip. Afr., i, p. 29, 1864. [Pentatoma.
 Stål, Enum. Hemip., v, p. 22, 1876, *Canthophorus*. [phorus.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iii, p. 397, 1877, *Cantho*-
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878, *Canthophorus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv., p. 503, 1878, *Canthophorus*.
 Distant, Biol. Centr. Am., Heter., i, p. 9, 1880, *Canthophorus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 60, pl. 3, fig. 227, 1884, *Cantho*-
 Provancher, Pet. Faune Ent. Can., iii, p. 27, 1885, *Canthophorus*. [phorus.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Canthophorus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.
 Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
ligatus (Say), Heter. N. Harm., p. 10, 1831; Fitch reprint, p. 767, *Cydnius*.
 Say, Compl. Writ., i, p. 322, *Cydnius*.
albionotatus Dallas, List of Hemip., i, p. 127, 1851.
 Uhler, in Say's Compl. Writ., i, p. 323, 1859.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., D. C., N. C.,
 Miss., Ohio, Neb., Manitoba.

Family PENTATOMIDAE (Leach)

- Leach, Brewster's Edinb. Encey., ix, p. 121, 1815, *Pentatomides*.
 Stephens, Cat. Br. Ins., ii, p. 337, 1829, *Pentatomidae*.
 Leach, Brewster's Edinb. Encey., Am. Edn., viii, p. 710, 1832, *Pentatomida*.
 Spinola, Essai sur les Hémipt., p. 260, 1837 (1840), *Pentatomites*.
 Blanchard, Hist. des Ins., Hémipt., p. 141, 1840, *Pentatomites*.
 Westwood, Intr. Mod. Classif. Ins., Synop., p. 123, 1840, Subfam. *Pentatomides*.
 Spinola, Tavola Sinot., p. 26, 1850, *Pentatomitae*.
 Stål, Hemip. Afr., i, p. 32, 1866, *Pentatomida*. (Includes *Scutelleridae*.)
 Stål, Of. Vet. Akad. Forh., xxix, p. 33, 1872, *Pentatomina*.
 Stål, Enum. Hemip., v, p. 28, 1876, *Pentatomidae*. (Includes *Scutelleridae*.)
 Distant, Fauna Br. Ind., Rhyn., i, p. 109, 1902 (as subfamily).
 Parshley, Psyche, xxii, p. 170, 1915. (Systematic.)

Subfamily GRAPHOSOMATINAE (Jakl.)

- Jakowleff, Horae Soc. Ent. Ross, xviii, p. 204, 1884, Subfam. *Graphosomini*.
 Puton, Cat. Hémipt. Palae., Edn. 3, p. 7, 1886, Tribe *Graphosomini*.
 Lethierry and Severin, Cat. Génl. Hémipt., i, p. 49, 1893, *Graphosomidae*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 70, 1902.
 Schouteden, Rhyng. Aethiop., i, p. 95, 1903.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 21, 1904, *Graphosomidae*.
 Schouteden, Genera Ins., Fasc. 30, p. 2, 1905.
 Oshanin, Verz. Palae. Hemip., i, p. 49, 1906, *Graphosomina*.
 Banks, Cat. Nearc. Hemip., p. 92, 1910, *Graphosominac*.
 Oshanin, Kat. Palae. Hemip., p. 6, 1912, *Graphosominac*.
 Zimmer, Univ. Neb. Studies, xi, p. 220, 1912, *Graphosominac*.

TRIBE PODOPINI (Dall.)

- Dallas, List of Hemip., i, p. 51, 1851, *Podopidae*.
 Dohrn, Cat. Hemip., p. 5, 1859, *Podopidae*.
 Stål, Of. Vet. Akad. Forh., xxix, p. 34, 1872, Div. *Podoparia*.
 Jakowleff, Horae Soc. Ent. Ross., xviii, p. 204, 1884, *Podoparia*.
 Schouteden, Genera Ins., Fasc. 30, pp. 3, 28, 1905, Tribe *Podoparia*.
 Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.

Genus *Oncozygia* Stål

Haplotype *clavicornis* Stål

- Stål, Enum. Hemip., ii, p. 15, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 21, 1904.
 Schouteden, Genera Ins., Fasc. 30, p. 29, 1905.

72. *Oncozygia clavicornis* Stål

- Stål, Enum. Hemip., ii, p. 16, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904.
 Schouteden, Genera Ins., Fasc. 30, p. 30, pl. 3, fig. 12, 1905.
 Localities: Va., Texas.

Genus *Podops* Lap.

Orthotype *imunctus* Fabr.

- Laporte, Essai Classif. Syst. Hémipt., p. 72, 1832.
 Burmeister, Handb. d. Ent., ii, p. 387, 1835 (Sec. B. only).

- Spinola, Essai sur les Hémipt., p. 372, 1837 (1840).
 Germar, Zeit. f. Ent., i, p. 63, 1839.
 Herrich-Schaeffer, Wanz. Ins., v, p. 44, 1839.
 Blanchard, Hist. des Ins., Hémipt., p. 161, 1840 (2d div. only).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840.
 Amyot and Serville, Hémipt., p. 56, 1843.
 Spinola, Tavola Sinot., p. 30, 1850.
 Dallas, List of Hemip., i, p. 52, 1851.
 Gorski, Anal. Ent., i, p. 48, 1852.
 Flor, Rhyn. Livl., i, p. 77, 1860.
 Fieber, Europ. Hemip., pp. 82, 349, 1861.
 Stål, Hemip. Afr., i, pp. 77, 89, 1864.
 Walker, Cat. Heter., i, p. 70, 1867.
 Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 34, 1872.
 Stål, Enum. Hemip., ii, p. 15, 1872.
 Lethierry and Severin, Cat. Génl. Hémipt., i, p. 55, 1893.
 Distant, Fauna Br. Ind., Rhyn., i, p. 72, 1902.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904.
 Schouteden, Genera Ins., Fasc. 30, pp. 29, 31, 1905.
 Oshanin, Verz. Palae. Hemip., i, p. 68, 1906.
 Begroth, Mém. Soc. Ent. Belg., xv, p. 146, 1908.
 Oshanin, Kat. Palae. Hemip., p. 8, 1912.

Subgenus **Amaurochrous** Stål

Logotype *dubius* (P. B.)

- Stål, Enum. Hemip., ii, p. 15, 1872.
 Schouteden, Genera Ins., Fasc. 30, p. 32, 1905 (names *dubius* type).
 Kirkaldy, Cat. Hemip., i, p. 237, 1909 (names *cinctipes* type and on p. 373
 [states that *dubius* = *cinctipes*).
 Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.
 †*Scotinophara* Stål, Of. Vet. Akad. Forh., xxiv, p. 523, 1867.

73. **Podops dubius** (P. B.)

- Palisot-Beauvois, Ins. Rec. Afr. Am., p. 33, pl. Hémipt. 5, fig. 6, 1805,
 Germar, Zeit. f. Ent., i, p. 64, 1839. [Scutellera.
 Herrich-Schaeffer, Wanz. Ins., v, p. 44, fig. 495, 1839.
 Amyot and Serville, Hemip., p. 57, 1843, *Podops*.
 Dallas, List of Hemip., i, p. 52, 1851, *Podops*.
 Stål, Enum. Hemip., ii, p. 15, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 77, 1904, *Podops*. (Doubtful.)
 Schouteden, Genera Ins., Fasc. 30, p. 33, 1905.
 ?Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.
 Localities: N. Y.(?), N. J., Va. (West Indies.)

74. **Podops cinctipes** (Say)

- Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 502, 1867, *Scotinophara*.
 Stål, Enum. Hemip., ii, p. 15, 1872.
 Uhler, Check List, p. 5, 1886, *Podops*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Podops*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904, *Podops*.

Schouteden, Genera Ins., Fasc. 30, p. 33, 1905.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 226, 1908.

Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.

‡*dubius* Germar, Zeit. f. Ent., i, p. 64, 1839, *Podops*.

Herrich-Schaeffer, Wanz. Ins., v, p. 44, fig. 495, 1839, *Podops*.

Dallas, List of Hemip., i, p. 52, 1851, *Podops*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Podops*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878, *Podops*.

Gillette and Baker, Hemip. Colo., p. 13, 1895, *Podops*.

Localities: Quebec, Ont., N. Y., N. J., D. C., Neb.

75. *Podops parvulus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904, *Podops*.

Schouteden, Genera Ins., Fasc. 30, p. 33, pl. 3, fig. 13, 1905.

Smith, Cat. Ins. N. J., Edu. 3, p. 132, 1910.

Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.

Localities: Quebec, Mass., N. Y., N. J., Neb., Kan., Colo.

Genus *Weda* Schout.

Haplotype *horvathi* Schout.

Schouteden, Ann. Soc. Ent. Belg., xlix, p. 145, 1905.

Schouteden, Genera Ins., Fasc. 30, p. 42, 1905.

76. *Weda horvathi* Schout.

Schouteden, Ann. Soc. Ent. Belg., xlix, p. 145, 1905.

Locality: Colo.

Subfamily PENTATOMINAE Stål

Stål, Hemip. Afr., i, pp. 32, 76, 1864.

Stål, Enum. Hemip., ii, p. 12, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 31, 1872, Subfam. *Pentatomina*

Distant, Biol. Centr. Am., Heter., i, p. 49, 1880. [(part).]

Puton, Cat. Hémip. Palae., Edn. 3, p. 9, 1886, Tribe *Pentatomini*.

Distant, Fauna Br. Ind., Rhyn., i, pp. 2, 109, 1902.

Oshanin, Verz. Palae. Hemip., i, p. 72, 1906, Subfam. *Pentatomina*.

Oshanin, Kat. Palae. Hemip., p. 9, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 220, 1912.

Macropeltidac Fieber, Europ. Hemip., pp. 26, 77, 327, 1861 (as family).

Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862.

TRIBE DISCOCEPHALINI (Fieb.)

Fieber, Europ. Hemip., pp. 26, 77, 326, 1861, Fam. *Discocephalidac*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 499, 1867, *Discocephalida*.

Stål, Hemip. Fabr., i, p. 17, 1868, *Discocephalida*.

Stål, Enum. Hemip., ii, p. 4, 1872, *Discocephalina*.

Distant, Biol. Centr. Am., Heter., i, p. 44, 1880, Subfam. *Discocephalinae*.

Kirkaldy, Cat. Hemip., i, pp. 34, 214, 1909.

Genus *Platycareus* Fieb.

Haplotype *umbraculata* Fieb.

Fieber, Europ. Hemip., pp. 77, 326, 1861.

Stål, Hemip. Fabr., i, p. 18, 1868.

Stål, Enum. Hemip., ii, p. 5, 1872. (As subgen. of *Discocephala*.)

Kirkaldy, Cat. Hemip., i, p. 215, 1909.

Discocephalessa Kirkaldy, Cat. Hemip., i, p. 215, 1909. (Orthotype
[*notulata* Stål.]

77. *Platycaremus clypeatus* (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862, *Discocephala*.

Stål, Hemip. Fabr., i, p. 18, 1868, *Discocephala*.

Stål, Enum. Hemip., ii, p. 6, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 45, pl. 6, fig. 1, 1880, *Discocephala*.

Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906, *Discocephala*.

Snow, Trans. Kan. Acad. Sci., xx., pt. 2, p. 158, 1907, *Discocephala*.

Kirkaldy, Cat. Hemip., i, p. 215, 1909.

inobtrusa (Walker), Cat. Heter., i, p. 183, 1867, *Discocephala*.

Localities: Texas, Ariz. (Mexico.)

78. *Platycaremus marginellus* (Stål)

Stål, Enum. Hemip., ii, p. 6, 1872, *Discocephala*.

Distant, Biol. Centr. Am., Heter., i, p. 45, pl. 5, fig. 2, 1880, *Discocephala*.

Kirkaldy, Cat. Hemip., i, p. 216, 1909.

Localities: Ariz. (Neotropical.)

TRIBE *SCIOCORINI* (A. & S.)

Amyot and Serville, Hémip., p. 118, 1843, Groupe *Sciocorides* part.

Stål, Of. Vet. Akad. Forh., xxix, p. 35, 1872, Div. *Sciocoraria*.

Stål, Enum. Hemip., v, p. 49, 1876 (without name).

Atkinson, Jl. Asiatic Soc. Beng., lvii, p. 11, 1888.

Distant, Fauna Br. Ind., Rhyn., i, p. 125, 1902, Div. *Sciocoraria*.

Kirkaldy, Cat. Hemip., i, pp. 34, 208, 1909.

Genus *Sciocoris* Fall.

Haplotype *umbrinus* (Wolff) = *cursitans* (Fabr.)

Fallén, Hemip. Suec. Cimic., p. 20, 1829.

Hahn, Wanz. Ins., i, p. 194, 1831.

Burmeister, Handb. d. Ent., ii, p. 372, 1835.

Herrieb-Schaefer, Nomen. Ent., i, p. 37, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 397, 1835.

Spinola, Essai sur les Hémip., p. 312, 1837 (1840).

Blanchard, Hist. des Ins., Hémip., p. 151, 1840.

Westwood, Intr. Mod. Classif. Ins., Synop., p. 124, 1840.

Amyot and Serville, Hémip., p. 120, 1843.

Spinola, Tavola Sinot., p. 35, 1850.

Fieber, Rhyngotog., p. 12, 1851.

Dallas, List of Hemip., i, p. 131, 1851.

Gorski, Anal. Ent., i, p. 64, 1852.

Flor, Rhyng. Livl., i, p. 109, 1860.

Fieber, Europ. Hemip., pp. 82, 355, 1861.

Stål, Hemip. Afr., i, pp. 79, 120, 1864.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 35, 1872.

Stål, Enum. Hemip., v, p. 50, 1876.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.

79. *Sciocoris microphthalmus* Flor.

Flor, Rhyng. Livl., i, p. 114, 1860.

Reuter, Ent. Tidskr., i, p. 125, 1880.

Puton, Synop. Hemip., ii, p. 39, 1881.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.

umbrinus Fieber, Rhyngotog., p. 16, 1851.

 Fieber, Europ. Hemip., p. 358, 1861.

curtipennis Mulsant and Rey, Punaise de Fr., Pent., p. 105, 1866.

 Localities: Ont., N. H.

TRIBE *MECIDINI* (Dist.)

Distant, Fauna Br. Ind., Rhyn., i, p. 140, 1902, Div. *Mecidaria*.

Platycoararia Bergroth, Proc. Zool. Soc. Lond. for 1905, p. 147 (as divi-

 Oshanin, Kat. Palae. Hemip., p. 9, 1912 (Tribe). [sion].

Diemeniini Kirkaldy, Cat. Hemip., i, pp. 34, 202, 1909.

Genus *Mecidea* Dall.

Logotype *indica* Dall.

Dallas, List of Hemip., i, p. 139, 1851.

Stål, Hemip. Afr., i, p. 132, 1864.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 58, 1872.

Stål, Enum. Hemip., ii, p. 17, 1872; v, p. 34, 1876.

Distant, Fauna Br. Ind., Rhyn., i, p. 140, 1902. [description.]

Reuter, Of. Finska Vet. Soc. Forh., Iv, Afd. A, No. 14, p. 10, 1913 (full

Cerataulax Signoret, Ann. Soc. Ent. Fr., Ser. 2, ix, p. 335, 1851 (Haplo-
[type *quadrivittatus* Sign.]

80. *Mecidea longula* Stål

Stål, Of. Vet. Akad. Forh., xi, p. 233, 1854; xiii, p. 57, 1856.

Stål, Enum. Hemip., ii, p. 17, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 177, 1906.

 Localities: Ia., Colo., N. Mex., Texas, Ariz.

TRIBE *HALYINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 35, 1872, Division *Halyaria*.

Stål, Enum. Hemip., v, p. 34, 1876, Division *Halyaria*.

Distant, Fauna Br. Ind., Rhyn., i, p. 109, 1902, Division *Halyaria*.

Oshanin, Verz. Palae. Hemip., i, p. 72, 1906, Division *Halyaria*.

Kirkaldy, Cat. Hemip., i, p. 34, 1909.

Oshanin, Kat. Palae. Hemip., pp. 9, 182, 1912, Tribe *Halyaria*.

Zimmer, Univ. Neb. Studies, xi, p. 220, 1912.

Genus *Brochymena* Am. & Serv.

Haplotype *†serrata* Am. & Serv. = *t-pustulata* (Fabr.)

Amyot and Serville, Hemip., p. 106, 1843.

Spinola, Tavola Sinot., p. 31, 1850.

Dallas, List of Hemip., i, p. 188, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.

Stål, Enum. Hemip., ii, p. 16, 1872.

- Distant, Biol. Centr. Am., Heter., i, p. 51, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 34, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904. (Key.)

81. *Brochymena arborea* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 311, 1825; Compl. Writ., ii, p. 239,
 Dallas, List of Hemip., i, p. 188, 1851. [*Pentatoma*.]
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 26, 1853.
 Stål, Enum. Hemip., ii, p. 17, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 59, 1880.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 27, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906.
 Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.
†revosa (Herrich-Schaeffer), Wanz. Ins., v, p. 70, fig. 515, 1839; vii, p. 56,
†annulata Walker, Cat. Heter., i, p. 230, 1867. [1844, *Halys*.]
 Localities: Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., N. C.,
 Ga., Fla., Ohio, Kan., Okla., N. Mex., Texas. (Mexico)

82. *Brochymena haedula* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 99, 1862.
 Stål, Enum. Hemip., ii, p. 17, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 52, pl. 5, fig. 7, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 27, 28, 1904.
 Barber, Jl. N. Y. Ent. Soc., xviii, p. 34, 1910.
 Localities: Texas, Ariz. (Mexico.)

83. *Brochymena poeyi* (Guer.)

- Guerin, in La Sagra, Hist. de Cuba, Ins., p. 365, pl. 13, fig. 1, 1857, *Pentatoma*.
 Stål, Berl. Ent. Zeit., x, p. 156, 1860.
 Stål, Enum. Hemip., ii, p. 17, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 28, 1904.
 Localities: Fla. (West Indies.)

84. *Brochymena myops* Stål

- Stål, Enum. Hemip., ii, p. 16, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 373, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 51, 1880.
 Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
 Van Duzee, Can. Ent., xlv, p. 318, 1912.
†quadripustulata Herrich-Schaeffer, Wanz. Ins., vii, p. 57, fig. 729, 1844.
†notata Provancher, Nat. Can., iv, p. 74, 1872.
 Uhler, Check List, p. 5, 1886.
 Localities: N. C., Ala., La., Texas, N. Mex.

85. *Brochymena 4-pustulata* (Fabr.)

- Fabricius, Syst. Ent., p. 704, 1775, *Cimer*.
 Goeze, Ent. Beytr., i, p. 238, 1778, *Cimer*.

- Fabricius, Spec. Ins., ii, p. 347, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn., 13, i, pt. 4, 2140, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 100, 1794, *Cimex*.
 Fabricius, Syst. Rhyn., p. 182, 1803, *Halys*.
 Dallas, List of Hemip., i, p. 188, 1851.
 Stål, Enum. Hemip., ii, p. 16, 1872.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 28, 1904.
 Van Duzee, Can. Ent., xlv, p. 318, 1912.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.
†sercata (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 187, pl. Hemip., 11, fig.
 Amyot and Serville, Hemip., p. 107, 1843. [8, 1805, *Halys*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
papillata (Herrich-Schaeffer), Wanz. Ins., iv, p. 104, fig. 453, 1839, *Halys*.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 58, 1844, *Halys*.
†annulata Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 373, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 35, 1885.
 Localities: Quebec, Ont., N. Y., N. J., Pa., D. C., N. C., Ohio, Neb.,
 Kan., Colo., Utah, Ariz., Calif.

86. *Brochymena affinis* Van D.

- Van Duzee, Trans. Am. Ent. Soc., xxx, p. 29, 1904.
 Localities: Idaho, Wash., Calif.

87. *Brochymena tenebrosa* Walk.

- Walker, Cat. Heter., i, p. 231, 1867.
 Distant, Biol. Centr. Am., Heter., i, pl. 6, fig. 5, 1880.
 Kirkaldy, Cat. Hemip., i, p. 192, 1909.
†obscura (Herrich-Schaeffer), Wanz. Ins., v, p. 68, fig. 513, 1839; vii,
 Stål, Enum. Hemip., ii, p. 16, 1872. [p. 59, 1844, *Halys*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 52, 1880.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 29, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906.
 Localities: Texas, Colo., Utah, Ariz., Nev., Calif., Oregon. (Mexico.)

88. *Brochymena cariosa* Stål

- Stål, Enum. Hemip., ii, p. 17, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 30, 1904.
 Localities: Fla., Miss., Tenn., La., Ark., Texas.

89. *Brochymena carolinensis* (Westw.)

- Westwood, Hope Cat., i, p. 22, 1837, *Halys*.
 Dallas, List of Hemip., i, p. 189, 1851.
 Stål, Enum. Hemip., ii, p. 17, 1872.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 823.
 Kirkaldy, Cat. Hemip., i, p. 191, 1909.
†annulatus (Fabricius), Syst. Ent., p. 704, 1775, *Cimex*.

- Goeze, Ent. Beytr., ii, p. 238, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 347, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex*.
 Gmelin, in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2139, 1888, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 100, 1894, *Cimex*.
 Fabricius, Syst. Rhynch., p. 182, 1803, *Halys*.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 57, fig. 728, 1844, *Halys*.
 Stål, Enum. Hemip., ii, p. 16, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 30, 1904.
 Bueno and Brimley, Ent. News, xviii, p. 442, 1907.
 †*serrata* (Wolff), Leon. Cimic., v, p. 184, fig. 178, 1811, *Halys*.
harrisii Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 95, 1871; xix, p. 373, 1878.
 Localities: N. Y., N. J., D. C., N. C., Ga., Fla.

90. *Brochymena punctata* Van D.

- Van Duzee, Can. Ent., xli, p. 369, 1909.
 Banks, Cat. Neare. Hemip., p. 92, 1910.
 †*harrisii* Van Duzee, Trans. Am. Ent. Soc., xxx, p. 31, 1904.
 Bueno and Brimley, Ent. News, xviii, p. 442, 1907.
 Localities: Va., Ga.

91. *Brochymena marginella* Stål

- Stål, Enum. Hemip., ii, p. 16, 1872. (As var. of *annulata*.)
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 31, 1904.
 Localities: Fla., Texas.

92. *Brochymena*(?) *laticornis* (Say)

- Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, 315,
 Localities: "U. S." [Pentatoma.

TRIBE PENTATOMINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxix, p. 37, 1872, Division *Pentatomaria*.
 Kirkaldy, Cat. Hemip., i, pp. 34, 35, 1909.
 Oshanin, Kat. Palae., Hemip., p. 10, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 221, 1912.

Genus *Peribalus* Muls. & Rey.

Logotype *vernalis* Wolff.

- Mulsant and Rey, Punaie de Fr., Pent., pp. 237, 262, 1866.
 Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 37, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 65, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904. (Key.)
 Zimmer, Univ. Neb. Studies, xi, pp. 221, 223, 1912.
 †*Holcostethus* Kirkaldy, Cat. Hemip., i, p. 47, 1909.

93. *Peribalus abbreviatus* (Uhl.)

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 397, 1872, *Holcostethus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 403, 1877, *Holcostethus*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Holcostethus*.
 Gillette and Baker, Hemip. Colo., p. 16, 1895, *Holcostethus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 33, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.

Localities: Neb., Kan., Colo., Utah, Mont., Ariz., Calif., Br. Am. (Mexico.)

94. *Peribalus limbolarius* Stål

Stål, Enum. Hemip., ii, p. 34, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 403, 1877.

Distant, Biol. Centr. Am., Heter., i, p. 65, pl. 6, fig. 19, 1880.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Gillette and Baker, Hemip. Colo., p. 16, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.

Zimmer, Univ. Neb. Studies, xi, p. 223, 1912.

modestus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.

Localities: Ont., N. Y., N. J., N. C., Ga., Ill., Neb., Kan., Colo., Texas, N. Mex., Manitoba, Mont., Utah, Ariz., Calif., Vane. Isd. (Mexico.)

95. *Peribalus tristis* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 33, 1904.

Localities: Calif., Vane. Isd.

96. *Peribalus piceus* (Dall.)

Dallas, List of Hemip., i, p. 236, 1851, *Pentatoma*(?).

Gillette and Baker, Hemip. Colo., p. 16, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.

Localities: Ont., Ia., Mont., Colo.

97. *Peribalus dubius* (Dall.)

Dallas, List of Hemip., p. 237, 1851, *Pentatoma*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.

Localities: "N. Am."

Genus *Trichopepla* Stål

Haplotype *pilipes* (Dall.) = *semivittata* (Say)

Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 64, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.

Zimmer, Univ. Neb. Studies, xi, p. 221, 1912.

98. *Trichopepla semivittata* (Say)

Say, Heter. N. Harm., p. 9, 1832; Fitch reprint, p. 766; Compl. Writ., i, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871. [322, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 34, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 403, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 374, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 64, pl. 6, fig. 5, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.

Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.

||*semivittatum* (Herrich-Schaeffer), Wanz. Ins., vii, p. 101, fig. 766, 1844,

Walker, Cat. Heter., iii, p. 559, 1868, *Pentatoma*. [Pentatoma.

pilipes (Dallas), List of Hemip., i, p. 247, 1851, *Pentatoma*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.

Localities: Ont., N. Y., N. J., Pa., Del., D. C., N. C., Fla., Ohio,
Ind., Neb., Colo., Texas.

99. *Trichopepla atricornis* Stål

Stål, Enum. Hemip., ii, p. 34, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 403, 1877.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904.

Localities: Ill., Wisc., Colo., Mont., Calif., Br. Am., Alaska.

Genus *Rhytidolomia* Stål

Logotype *senilis* Say

Stål, Enum. Hemip., ii, p. 33, 1872.

Kirkaldy, Entomol., xxxiii, p. 240, 1900. (Names *senilis* type.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904 (as subgenus).

Kirkaldy, Cat. Hemip., i, p. 52, 1909.

||*Lioderma* Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871. (Logotype

Stål, Enum. Hemip., ii, p. 32, 1872. [*saucia* Say.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 377, 1878.

Uhler, Check List, p. 6, 1886.

Liodermion Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Lioderma*

Kirkaldy, Cat. Hemip., p. 53, 1909 (as subgenus). [Uhl].

Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.

100. *Rhytidolomia viridicata* (Walk.)

Walker, Cat. Heter., ii, p. 283, 1867, *Hymenarcys*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 436, 1899, *Pentatoma*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 36, 1904, *Pentatoma*.

Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion*. [(as new.)

||*viridicata* (Uhler), Wheeler's Surv., v., p. 830, pl. 42, fig. 11, 1875, *Lioderma*,

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 504, 1878, *Lioderma*.

Uhler, Check List, p. 6, 1886, *Lioderma*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Lioderma*.

Localities: Neb., Colo., Mont. (Mexico.)

101. *Rhytidolomia saucia* (Say).

Say, Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 762; Compl. Writ., i, p.

Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867, *Pentatoma*. [318, *Pentatoma*.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871, *Lioderma*.

Stål, Enum. Hemip., ii, p. 34, 1872, *Lioderma*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Lioderma*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 36, 1904, *Pentatoma*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909, *Pentatoma*.

Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.

Localities: Mass., Conn., N. Y., Va., Fla.

102. *Rhytidolomia senilis* (Say)

Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871, *Lioderma*. [316, *Pentatoma*.

- Stål, Enum. Hemip., ii, p. 33, 1872, *Lioderma*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Lioderma*.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 811, *Pentatoma*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 51, 1912.
 oblonga (Westwood), Hope Cat., i, p. 9, No. 83, 1837, *Pentatoma*.
 oralis (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma*.
 grisea (Dallas), List of Hemip., i, p. 246, 1851, *Pentatoma*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867, *Pentatoma*.
 Localities: N. Y., N. J., Va.

103. *Rhytidolomia belfragei* Stål

- Stål, Enum. Hemip., ii, p. 33, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma*.
 Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion*.
 Localities: Ill., Iowa, Neb., "Canada."

104. *Rhytidolomia osborni* (Van D.)

- Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma*.
 Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 177, 1906, *Pentatoma*.
 Localities: Colo., Texas, Ariz.

105. *Rhytidolomia faceta* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 315, 1824; Compl. Writ., ii, p. 242, *Penta-*
 Uhler, Hayden's Surv. Terr., Rept. for 1871; p. 399, 1872, *Pentatoma*. [*toma*.]
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 38, 1904, *Pentatoma*.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906, *Pentatoma*.
 Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion*.
 Localities: Dak., Neb., Colo., Utah, Ariz., Calif.

Genus *Chlorochroa* Stål

Logotype *ligata* Say

- Stål, Enum. Hemip., ii, p. 33, 1872. (As subgen. of *Lioderma*.)
 Distant, Biol. Centr. Am. Heter., i, p. 63, 1880. [*toma*.]
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 38, 1904. (As subgen. of *Penta-*
 Oshanin, Verz. Palae. Hemip., i, p. 108, 1906. [*ligata* type.)
 Kirkaldy, Cat. Hemip., i, p. 53, 1909. (As subgen. of *Rhytidolomia*; names
 †*Pentatoma* Fieber, Europ. Hemip., pp. 80, 336, 1861.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867 (part).
 Puton, Cat. Hémip. Palae., Edn. 3, p. 12, 1886.
 Lethierry and Severin, Cat. Génl. Hémip., i, p. 119, 1893.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904.
 Banks, Cat. Neare. Hemip., p. 88, 1912.
 †*Lioderma* Provancher, Pet. Faune Ent. Can., iii, p. 41, 1885. [Linn.]
 Pitedia Reuter, Rev. Synon., p. 124, No. 55, 1888. (Haplotype *juniiperina*)

106. *Chlorochroa uhleri* Stål

- Stål, Enum. Hemip., ii, p. 33, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.

- Distant, Biol. Centr. Am., Heter., i, p. 64, pl. 6, fig. 18, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 39, 1904, *Pentatoma*.
 Forbes, Rept. Ill. St. Ent., xxiii, p. 116, fig. 101, 1905, *Pentatoma*.
 Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermon*. [Cimer.
?flavomarginatus (Kouchakevitch), Horae Soc. Ent. Ross., iv, p. 99, 1867,
ligata (Fitch), 3d Rept. Trans. N. Y. St. Agr. Soc., xvi, p. 389, 1856, *Penta-*
Provancher, Pet. Faune Ent. Can., iii, p. 41, 1885, *Lioderma*. [toma.
juniperina (Provancher), Pet. Faune Ent. Can., iii, p. 36, 1885, *Pentatoma*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894, *Pentatoma*.
 Gillette and Baker, Hemip. Colo., p. 15, 1895, *Pentatoma*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 39, 1904, *Pentatoma*.
persimilis Hovarth, Ann. Mus. Natl. Hung., vi, p. 555, 1908.
 Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 51, 1912.
 Localities: Quebec, Ont., Me., Conn., N. Y., N. J., Neb., Colo.,
 Utah, Mont., Idaho, Calif., Alaska. (Mexico.)

107. *Chlorochroa congrua* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 288, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 40, 1904, *Pentatoma*.
 Localities: Colo., Utah, Mont., Idaho.

108. *Chlorochroa ligata* (Say)

- Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, p. 315,
 Stål, Enum. Hemip., ii, p. 33, 1872. [Pentatoma.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872, *Pentatoma*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 288, 1876.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
 Distant, Biol. Centr. Am., Heter., i, p. 64, 1880.
 Townsend, Can. Ent., xxiv, p. 193, 1892, *Lioderma*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
 Gillette and Baker, Hemip. Colo., p. 15, 1895, *Lioderma*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 41, 1904, *Pentatoma*.
 Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 23, 1910, *Pentatoma*.
rufocinctus (Herrich-Schaeffer), Wanz. Ins., iv, p. 94, fig. 436, 1839, *Cimer*.
marginatus (Dallas), List of Hemip., i, p. 277, 1851, *Rhaphigaster*.
 Walker, Cat. Heter., iii, p. 357; iii, p. 566, 1867, *Raphigaster*.
rubromarginatus (Kouchakevitch), Horae Soc. Ent. Ross., iv, p. 101, pl. 2,
 [fig. 4, 1867, *Cimer*.
 Localities: Colo., Utah, N. Mex., Ariz., Calif., Vanc. Isd.
 (Mexico.)

109. *Chlorochroa sayi* Stål

- Stål, Enum. Hemip., ii, p. 33, 1872.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 831, 1875.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876; iii, p. 402, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1324.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893, *Lioderma*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Lioderma*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 41, 1904, *Pentatoma*.

Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 73, 1910, *Pentatoma*.

granulosa (Uhler), Hayden's Surv. Terr., Rept. for 1871, p. 398, 1872.

[*Pentatoma*.

Localities: Kan., Colo., Mont., Idaho, Utah, Nev., Ariz., Calif.

Genus **Carpocoris** Kolen.

Logotype *nigricornis* Fabr. = *pudicus* Poda.

Kolenati, Melet. Ent., iv, p. 45, 1846.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 37, 1872.

Distant, Fauna Br. Ind., Rhyn., i, p. 157, 1902.

Kirkaldy, Cat. Hemip., i, p. 56, 1909. (Names *nigricornis* Fabr. type.)

†*Mormidea* Fieb., Europ. Hemip., p. 334, 1861.

Subgenus **Anthemina** Muls. & Rey

Logotype *lynx* Fabr. = *lunulatus* Goez.

Mulsant and Rey, Punaise de Fr., p. 238, 1866.

Kirkaldy, Cat. Hemip. i., pp. 56, 57, 1909. (Names *lynx* type.)

110. **Carpocoris remotus** Horv.

Horvath, Ann. Mus. Natl. Hung., v, p. 296, 1907.

Banks, Cat. Neare. Hemip., p. 83, 1910.

†*lynx* Stål, Enum. Hemip., ii, p. 33, 1872.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 398, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.

Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.

Gillette and Baker, Hemip. Colo., p. 16, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.

Localities: N. D., Colo., Mont., Utah, Ariz., Calif.

Genus **Mormidea** Am. & Serv.

Logotype *ypsilon* Linn.

Amyot and Serville, Hémip., p. 134, 1843.

Dallas, List of Hemip., i, p. 210, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.

Stål, Enum. Hemip., ii, p. 19, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 53, 1880.

Provancher, Pet. Faune Ent. Can., iii, p. 43, 1885.

Kirkaldy, Cat. Hemip., i, p. 59, 1909. (Names *ypsilon* Linn. type.)

Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

Subgenus **Melanochila** Stål

Haplotype *lugens* Fabr.

Stål, Enum. Hemip., ii, p. 19, 1872.

Kirkaldy, Cat. Hemip., i, p. 59, 1909. (Names *lugens* Fabr. type.)

111. **Mormidea lugens** (Fabr.)

Fabricius, Syst. Ent., p. 716, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 248, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 360, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 297, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., i, pt. 4, p. 2155, 1788, *Cimex*.

- Fabricius, Ent. Syst., iv, p. 125, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 187, 1803, *Cydnus*.
 Wolff, Icones Cimic., v, p. 186, fig. 180, 1811, *Cydnus*.
 Herrich-Schaeffer, Wanz. Ins., v, p. 66, fig. 510, 1889, *Cimex*; vii, p. 96, 1844,
 Dallas, List of Hemip., i, p. 248, 1851, *Pentatoma*. [Pentatoma.
 Stål, Stet. Ent. Zeit., xxiii, p. 103, 1862.
 Walker, Cat. Heter., ii, pp. 253, 288, 1867, *Pentatoma*; iii, p. 43, 1868.
 Stål, Enum. Hemip., ii, p. 19, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876; iii, p. 402, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 54, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 43, 1885.
 Van Duzee, Can. Ent., xxi, p. 2, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
 Zimmer, Univ. Neb. Studies, xi, p. 226, 1912.
albipes (Fabricius), Ent. Syst., Suppl., p. 535, 1798, *Cimex*.
 Fabricius, Syst. Rhyng., p. 177, 1803, *Cimex*. [n.n. for *albipes* Fabr.).
gamma (Fabricius), Syst. Rhyng., Emmend. at end of volume, 1803, *Cimex*
 Say, Heter., N. Harm., p. 10, 1831; Fitch reprint, p. 767; Compl. Writ.,
 [i, p. 322, *Pentatoma*.
punctipes (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 113, pl. Hémip. 8,
 [fig. 6, 1805, *Pentatoma*.
punctipes (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 313, No. 4, 1825, *Penta-*
 Say, Compl. Writ., ii, p. 241, 1859. [toma.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., D. C., Va.,
 N. C., S. C., Fla., Wisc., Neb., Kan., Okl., Dak., Wyo., Colo.,
 Texas. (West Indies, Mexico.)

Subgenus **Mormidea** Am. & Serv.

Stål, Enum. Hemip., ii, p. 19, 1872.

112. **Mormidea pictiventris** Stål

- Stål, Stet. Ent. Zeit., xviii, p. 103, 1862.
 Stål, Enum. Hemip., ii, p. 20, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 55, pl. 5, fig. 11, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907.
 Localities: Fla., Texas. (West Indies, Mexico.)

113. **Mormidea sordidula** Stål

- Stål, Enum. Hemip., ii, p. 21, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907.
 Localities: Texas, N. Mex. (Neotropical.)

114. **Mormidea tetra** Walk.

- Walker, Cat. Heter., iii, p. 551, 1868.
 Distant, Biol. Centr. Am., Heter., i, p. 56, pl. 6, fig. 6, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

griscens Stål, Enum. Hemip., ii, p. 21, 1872.

Localities: Texas, Ariz. (Mexico.)

115. *Mormidea punctifer* (Walk.)

Walker, Cat. Heter., ii, p. 274, 1867, *Eysarcoris*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 437, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.

Locality: Calif.

116. *Mormidea guerini* L. & S.

Lethierry and Severin, Cat. Génl. Hémip., i, p. 123, 1893 (n.n. for *geographica*

†*geographica* Guérin, Hist. de Cuba, Ins., p. 369, 1857. [Guer.).

Localities: Fla. (Cuba.)

Genus *Solubea* Bergr.

Logotype *typhaeus* (Fabr.) = *pugnax* (Fabr.)

Bergroth, Rev. d'Ent., x, p. 235, 1891 (n.n. for *Ocbalus* Stål).

Kirkaldy, Cat. Hemip., i, p. 61, 1909. (Names *pugnax* Fabr. type.)

Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

||*Ocbalus* Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.

Stål, Enum. Hemip., ii, p. 22, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 56, 1880.

117. *Solubea pugnax* (Fabr.)

Fabricius, Syst. Ent., p. 704, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 238, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 100, 1794, *Cimex*.

Fabricius, Syst. Rhyng., p. 161, 1803, *Cimex*.

Stål, Enum. Hemip., ii, p. 22, 1872, *Ocbalus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876, *Ocbalus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 377, 1878, *Ocbalus*.

Distant, Biol. Centr. Am., Heter., i, p. 56, 1880, *Ocbalus*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904, *Ocbalus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 226, 1912.

typhaeus (Fabricius), Syst. Rhyng., p. 162, 1803, *Cimex*.

Wolff, Icon. Cimic., v, p. 180, fig. 174, 1811, *Cimex*.

Dallas, List of Hemip., i, p. 216, 1851, *Mormidea*.

Guerin in La Sagra, Hist. de Cuba, Ins., p. 370, 1857, *Pentatoma*.

Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862.

Walker, Cat. Heter., ii, p. 253, 1867, *Mormidea*.

Stål, Hemip. Fabr., i, p. 27, 1868. [fig. 9, 1805, *Pentatoma*.

orthocantha (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 130, pl. Hémip. 9.

- augur* (Say), Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 758; Compl. [Writ., i, p. 313, *Pentatoma*.
vitripennis (Burmeister), Handb. d. Ent., ii, p. 367, 1835, *Cimex*.
 Localities: N. Y., N. J., Pa., Md., D. C., N. C., S. C., Ga., Fla., Miss., Ohio, Ia., Neb., Kau., Colo., Texas, Ariz. (West Indies, Mexico.)

Genus **Euschistus** Dall.

Logotype *tristigmus* (Say)

- Dallas, List of Hemip., i, p. 201, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.
 Walker, Cat. Heter., ii, p. 243, 1867.
 Stål, Enum. Hemip., ii, p. 23, 1872 (names *tristigmus* type).
 Distant, Biol. Centr. Am., Heter., i, p. 58, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904. (Key.)
 Kirkaldy, Cat. Hemip., i, p. 63, 1909. (Names *apicalis* Dall. pseudotype.)
 Zimmer, Univ. Neb. Studies, xi, pp. 222, 227, 1912.

Subgenus **Euschistus** Dall.

- Stål, Enum. Hemip., ii, p. 26, 1872.

118. **Euschistus servus** (Say)

- Say, Heter. N. Harm., p. 4, 1831; Fitch reprint, p. 759; Compl. Writ., i, p. [314, *Pentatoma*.
 Stål, Enum. Hemip., ii, p. 26, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876; iii, p. 402, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 811.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 45, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
 Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 75, 1910.
?harrisii (Westwood), Hope Cat., i, p. 41, 1837, *Pentatoma*.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 818, pl. 52, fig. 2,
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
spilota (Westwood), Hope Cat., i, p. 42, 1837, *Pentatoma*.
 Localities: Mass., N. J., Pa., Md., D. C., Va., N. C., S. C., Ga., Fla., Miss., La., Ill., Dak., Colo., N. Mex., Texas.

119. **Euschistus latimarginatus** Zim.

- Zimmer, Can. Ent., lii, p. 167, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 227, 1912.
 Localities: Neb., Colo.

120. **Euschistus impictiventris** Stål

- Stål, Enum. Hemip., ii, p. 26, 1872.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 45, 1904.
?jugalis Provancher, Pet. Faune Ent. Can., iii, p. 204, 1888.
 Van Duzee, Can. Ent., xlv, p. 325, 1912.
 Localities: Colo., N. Mex., Texas, Utah, Vane. Isd.

121. *Euschistus euschistoides* (Voll.)

Vollenhoven, Versl. Med. Kon. Akad. Wetens. Amst., Ser. 2, ii, p. 180, 1868.
 Kirkaldy, Cat. Hemip., i, p. 64, 1909. [*Dicræus*.

fissilis Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871.

Stål, Enum. Hemip., ii, p. 26, 1872.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Gillette and Baker, Hemip. Colo., p. 14, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 44, 1904.

Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.

Zimmer, Univ. Neb. Studies, xi, p. 227, 1912.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., N. C.,
 Ohio, Ill., Neb., Colo., Mont., Vanc. Isd.

122. *Euschistus conspersus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 388, 1897.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 46, 1904.

Localities: Calif., Wash., Vanc. Isd.

123. *Euschistus inflatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 107, 1903; xxx, p. 45, 1904.

Localities: Colo., N. Mex.

124. *Euschistus politus* Uhl.

Uhler, Can. Ent., xxix, p. 117, 1897.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 46, 1904.

Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.

Localities: N. H., Mass., R. I., N. Y., N. J., Md., D. C., Ohio.

125. *Euschistus tristigmus* (Say)

Say, Heter. N. Harm., p. 4, 1831; Fitch reprint, p. 758; Compl. Writ., i, p.

Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861. [314, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 26, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.

Distant, Biol. Centr. Am. Heter., i, p. 58, pl. 5, figs. 20, 21, 1880.

Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.

Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.

inconspicua (Westwood), Hope Cat., i, p. 42, 1837.

Dallas, List of Hemip., i, p. 206, 1851.

|| *tristigmus* (Herrieh-Schaeffer), Wanz. Ins., vii, pp. 95, 101, fig. 767, 1844.

Dallas, List of Hemip., i, p. 207, 1851. [*Pentatoma* (as new).

Herrieh-Schaeffer, Wanz. Ins., Verz., p. 96, 1853.

luridus Dallas, List of Hemip., i, p. 207, pl. 7, fig. 6, 1851.

a. var. **pyrrhocerus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 71, fig. 638, 1842, *Cimex*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Md., D. C.,
Va., N. C., Ga., Fla., Ia., Neb., Kan., Okl., Mo., La., Colo.

126. **Euschistus variolarius** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 149, pl. Hémipt. 10, fig. 6, 1805,
Stål, Enum. Hemip., ii, p. 26, 1872. [*Pentatoma*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876; iii, p. 402, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 374, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 53, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.

||*punctipes* (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 314, No. 5, 1825; Compl.

Dallas, List of Hemip., i, p. 207, 1851. [Writ., ii, p. 241, *Pentatoma*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 96, 1853.

sordidus (Herrich-Schaeffer), Wanz. Ins., vi, p. 70, fig. 637, 1842, *Cimex*;

[vii, p. 95, 1844, *Pentatoma*; Verz., p. 96, 1853.

ictericus (Herrich-Schaeffer), Wanz. Ins., vi, p. 71, fig. 639, 1842, *Cimex*;

[vii, p. 95, 1844, *Pentatoma*; Verz., p. 95, 1853.

Localities: Ont., N. Y., N. J., Pa., D. C., Neb., Kan., Colo., Utah,
Idaho.

127. **Euschistus ictericus** (Linn.)

Linnaeus, Cent. Ins., p. 16, 1763, *Cimex*.

Linnaeus, Amoen. Acad., vi, p. 399, 1763, *Cimex*.

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 719, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 702, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 192, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 345, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 284, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2136, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 95, 1794, *Cimex*.

Fabricius, Syst. Rhyn., p. 157, 1803, *Cimex*.

Dallas, List of Hemip., i, p. 206, 1851 (excl. synon.).

Walker, Cat. Heter., ii, p. 243, 1867; iii, p. 451, 1868, *Aceratodes*.

Stål, Enum. Hemip., ii, p. 26, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.

Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.

rubrofusca (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 185, pl. Hemip. 11,

?cognatus Dallas, List Hemip., i, p. 204, 1851. [fig. 3, 1805, *Pentatoma*.

Localities: Ont., N. Y., N. J., N. C., Fla., Ill., Wisc., Neb., Colo.,
Texas.

128. **Euschistus bifibulus** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 148, pl. Hémipt. 10, fig. 5, 1805,

Dallas, List of Hemip., i, p. 204, 1851. [*Pentatoma*.

132. **Euschistus crassus** Dall.

Dallas, List of Hemip., i, p. 205, 1851.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.

Localities: Ga., Fla.

133. **Euschistus biformis** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 100, 1862.

Walker, Cat. Heter., iii, p. 550, 1868.

Stål, Enum. Hemip., ii, p. 28, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 60, pl. 5, fig. 15, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 77, 1904.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

Localities: Ariz. (Mexico.)

134. **Euschistus zopilotensis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 330, pl. 31, fig. 9, 1890.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.

Localities: Texas. (Mexico.)

Subgenus **Paraschistus** Kirk.

Orthotype *integer* Stål

Kirkaldy, Cat. Hemip., i, p. 63, 1909.

135. **Euschistus integer** Stål

Stål, Enum. Hemip., ii, p. 28, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 60, pl. 7, fig. 5, 1880.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

Localities: Ariz. (Mexico.)

Genus **Padaeus** Stål

Logotype *irroratus* (H. S.) = *viduus* (Voll.)

Stål, Stet. Ent. Zeit., xxiii, p. 101, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 61, 1880.

Kirkaldy, Cat. Hemip., i, p. 68, 1909. (Names *irroratus* = *viduus* type.)

136. **Padaeus viduus** (Voll.)

Vollenhoven, Versl. Med. Kon. Akad. Wet., Amst., Ser. 2, ii, p. 180, 1868.

Kirkaldy, Cat. Hemip., i, p. 69, 1909.

[*Mormidea*.

irroratus (Herrich-Schaeffer), Wanz. Ins., iv, p. 19, fig. 367, 1839, *Cimex*.

Herrich-Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma*.

Dallas, List of Hemip., i, p. 215, 1851, *Mormidea*.

Stål, Stet. Ent. Zeit., xxiii, p. 101, 1862.

Stål, Enum. Hemip., ii, p. 29, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 61, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Localities: Ariz. (not Fla.). (Neotropical.)

Genus **Proxys** Spin.

Haplotype *victor* Fabr.

Spinola, Essai sur les Hémipt., p. 325, 1837 (1840).

Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 62, 1880.

‡*Prooxys* Amyot and Serville, Hémip., p. 139, 1843.

‡*Proxis* Spinola, Tavola Sinot., p. 36, 1850.

137. *Proxys albopunctulatus* (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 130, pl. Hémip. 9, fig. 8, 1805, *Pentatoma*.
Stål, Enum. Hemip., ii, p. 29, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 62, 1880.

Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 438, 1899.

——— Stoll, Punais., figs. 159, 230, 1790 (without name).

‡*victor* (Herrieh-Schaeffer), Wanz. Ins., iv, p. 21, fig. 369, 1839, *Cimex*.

Herrich-Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma*.

§*albopunctatus* Uhler, Check List, p. 6, 1886.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.

Localities: "Southern States" (Uhler), doubtful.

138. *Proxys punctulatus* (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 188, pl. Hémip. 11, fig. 9, 1805,
Guerin in Sagra, Hist. de Cuba, Ins., p. 370, 1857, *Pentatoma*. [Italy.
Stål, Enum. Hemip., ii, p. 29, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 63, 1880.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.

Bueno and Brimley, Ent. News., xviii, p. 442, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.

‡*victor* (Wolff), Leon. Cimic., v, p. 181, fig. 175, 1811, *Cimex*.

Amyot and Serville, Hémip., p. 140, 1843, *Prooxys*.

tenebrosa (Say), Ins. Louis., p. 10, 1832; Heter. N. Harm., p. 10, 1832;

[Fitch reprint, p. 767; Compl. Writ., i, pp. 304, 322, *Pentatoma*.

‡*delirator* Amyot and Serville, Hémip., p. 140, pl. 3, fig. 7, 1843, *Prooxys*.

brevispinus Guerin in Sagra, Hist. de Cuba, Ins., p. 371, 1857.

geniculata Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862, *Prooxys*.

Localities: Pa., N. C., Ga., Fla., La., Okl., Texas. (Neotropical.)

Genus *Coenus* Dall.

Haplotype *tarsalis* Dall. = *delius* (Say)

Dallas, List of Hemip., i, pp. 194, 230, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867.

Provancher, Pet. Faune Ent. Can., iii, p. 40, 1885.

Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

139. *Coenus delius* (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 765; Compl. Writ., i, p.
Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867. [320, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 30, 1872.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876; iv, p. 504, 1878.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.

Provancher, Pet. Faune Ent. Can., ii, p. 40, 1885.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.

Gillette and Baker, Hemip. Colo., p. 15, 1895.

- Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
 Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 53, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
aeruginosa (Amyot and Serville), Hémip., p. 125, 1843, *Hymenarcys*.
 Walker, Cat. Heter., ii, p. 282, 1867, *Hymenarcys*.
tarsalis, Dallas, List of Hemip., i, p. 230, pl. 8, fig. 6, 1851. [ii, p. 183, 1868.
punctatissimus Vollenhoven, Versl. Med. Kon. Akad. Wetens., Amst., Ser.
 Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Fla., Ill., Wis.,
 Neb., Colo., Okl., Texas, Mont., Br. Col.

Genus **Hymenarcys** Am. & Serv.

Logotype *perpunctata* Am. & Serv. = *nervosa* Say.

- Amyot and Serville, Hémip., p. 124, 1843.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867.
 Stål, Enum. Hemip., ii, p. 30, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 63, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 39, 1885.
 Kirkaldy, Cat. Hemip., i, p. 72, 1909. (Names *nervosa* Say type.)
 Zimmer, Univ. Neb. Studies, xi, pp. 222, 229, 1912.
 ‡*Hymenarcis* Spinola, Tavola Sinot., p. 36, 1850.

140. **Hymenarcys aequalis** (Say)

- Say, Heter. N. Harm., p. 7, 1831; Fitch reprint, p. 764; Compl. Writ., i, p.
 Stål, Enum. Hemip., ii, p. 30, 1872. [319, *Pentatoma*.
 Uhler, Hayden's Surv., Rept. for 1871, p. 396, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 259, 1906.
 Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
dentatus (Herrich-Schaeffer), Wanz. Ins., v, p. 64, fig. 507, 1839, *Cimer*.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 95, 1842, *Pentatoma*.
 Walker, Cat. Heter., ii, p. 288, 1867, *Pentatoma*.
borura (Dallas), List of Hemip., i, p. 244, 1851, *Pentatoma*.
 Localities: Mass., N. Y., N. J., Md., D. C., N. C., Ga., Fla., Miss.,
 Ohio, Ind., Ill., Mo., Dak., Neb., Kan., Colo., Okl., Texas, Mont.,
 Sask.

141. **Hymenarcys reticulata** Stål

- Stål, Enum. Hemip., ii, p. 30, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 63, pl. 6, fig. 17, 1880.
 Localities: Ariz. (Mexico.)

142. **Hymenarcys crassa** Uhl.

- Uhler, Trans. Md. Acad. Sci., i, p. 387, 1897.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
 Locality: Ariz.

143. **Hymenarcys nervosa** (Say)

- Say, Heter. N. Harm., p. 9, 1832; Fitch reprint, p. 766; Compl. Writ., i, p.
 Walker, Cat. Heter., ii, p. 283, 1867. [321, *Pentatoma*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 40, pl. 1, fig. 11, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
pennsylvanicae (Westwood), Hope Cat., i, p. 35, 1837, *Pentatoma*.
perpunctata Amyot and Serville, Hémip., p. 124, 1843.
 Stål, Of. Vet. Akad. Forh., xix, p. 502, 1862.
 Localities: Quebec, Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C.,
 S. C., Ga., Fla., Ind., Ill., Mo., Dak., Neb., Okl., Texas.

Genus *Aelia* Fabr.Orthotype *acuminata* Linn.

- Fabricius, Syst. Rhyng., p. 188, 1803.
 Fallén, Hemip. Succ. Cimic., p. 33, 1829.
 Hahn, Wanz. Ins., i, p. 120, 1831.
 Leach, Brewster's Edinb. Encey., Am. Edn., viii, p. 710, 1832.
 Laporte, Essai Classif. Syst. Hémip., p. 66, 1832.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 55, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 401, 1835. (Names *acuminatus* type.)
 Spinola, Essai sur les Hémip., p. 313, 1837 (1840).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
 Blanchard, Hist. des Ins., Hémip., p. 154, 1840.
 Amyot and Serville, Hémip., p. 133, 1843.
 Spinola, Tavola Sinot., p. 36, 1850.
 Dallas, List of Hemip., i, p. 222, 1851.
 Gorski, Anal. Ent., i, p. 71, 1852 (subgen. of *Pentatoma*).
 Flor, Rhyng. Livl., i, p. 118, 1860 (Subgen. I.).
 Fieber, Europ. Hemip., pp. 82, 350, 1861.
 Douglas and Scott, Br. Hemip., p. 68, 1865.
 Mulsant and Rey, Punaise de Fr., Pent., p. 128, 1866.
 Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872.
 Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.
 †*Cimer* Burmeister, Handb. d. Ent., ii, p. 366, 1835 (in part).

144. *Aelia americana* Dall.

- Dallas, List of Hemip., i, p. 223, 1851.
 Walker, Cat. Heter., ii, p. 271, 1867.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.
 Gillette and Baker, Hemip. Colo., p. 14, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
 Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
 Localities: Dak., Neb., Colo., Mont., Manitoba.

Genus *Neottiglossa* Kby.Haplotype *trilineata* Kirby

- Kirby, Richardson's Fauna Bor. Am., iv, p. 276, 1837.
 Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872.
 Stål, Enum. Hemip., ii, p. 18, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 38, 1885.

Zimmer, Univ. Neb. Studies, xi, pp. 222, 230, 1912.

†*Eysarcoris* Spinola, Essai sur les Hémip., p. 310, 1837 (1840).

Aelioides Dohrn, Stet. Ent. Zeit., xxi, p. 101, 1860. (Orthotype *inflexa*
Douglas and Scott, Br. Hemip., p. 70, 1865. [Wolff.]

Mulsant and Rey, Punaise de Fr., Pent., p. 142, 1866. [Fieb.]

Platysolen Fieber, Europ. Hemip., pp. 82, 353, 1861. (Logotype *griscus*
Subgenus **Neottiglossa** Kby.

Stål, Enum. Hemip., ii, p. 18, 1872.

145. **Neottiglossa undata** (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 764; Compl. Writ., i, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871. [319, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 18, 1872.

Uhler, Hayden's Surv. Rept. for 1871, p. 395, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 401, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 39, 1885.

Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903, *Mormidea*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.

Van Duzee, Can. Ent., xlv, p. 318, 1912.

Zimmer, Univ. Neb. Studies, xi, 230, 1912.

†*americana* (Provancher), Pet. Faune Ent. Can., iii, p. 38, 1885, *Aelia*.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Ohio,
Ill., Wis., Minn., Neb., Colo., Calif., Vanc. Isd.

146. **Neottiglossa trilineata** (Kby.)

Kirby, Richardson's Fauna Bor. Am., iv, p. 276, pl. 6, fig. 6, 1837, *Pentatoma*.

Kirby in Bethune's reprint, p. 135, *Pentatoma*.

Dallas, List of Hemip., i, p. 224, 1851, *Aelia*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 401, 1877.

Uhler, Can. Ent., x, p. 138, 1878.

Localities: Dak., Neb., Manitoba, Br. Col.

Subgenus **Texas** Kirk.

Logotype *sulcifrons* Stål

Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Melanostoma* Stål).

Kirkaldy, Cat. Hemip., i, pp. 79, 80, 1909. (Names *sulcifrons* type.) [Stål.]

||*Melanostoma* Stål, Enum. Hemip., ii, p. 18, 1872. (Logotype *sulcifrons*

147. **Neottiglossa sulcifrons** Stål

Stål, Enum. Hemip., ii, p. 18, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 402, 1877, *Melan-*
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893. [ostoma.]

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.

Bueno and Brimley, Ent. News, xviii, p. 442, 1907.

Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.

Zimmer, Univ. Neb. Studies, xi, p. 230, 1912.

Localities: N. J., Md., D. C., N. C., Ga., Neb., Kan., Utah, Texas.

148. **Neottiglossa cavifrons** Stål

Stål, Enum. Hemip., ii, p. 18, 1872.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.

Localities: Texas, Utah, Calif.

Genus *Cosmopepla* StålLogotype *caruifer* Fabr. = *bimaculata* Thom.

- Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
 Stål, Enum. Hemip., ii, p. 18, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 52, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 44, 1885.
 Montandon, Proc. U. S. Natl. Mus., xvi, p. 45, 1893. (Synopsis of species.)
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904. (Key.)
 Kirkaldy, Cat. Hemip., i, p. 80, 1909. (Names *caruifer* type.)
 Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

149. *Cosmopepla bimaculata* (Thom.)

- Thomas, Trans. Ill. St. Ag. Soc., v, p. 455, 1865, *Pentatoma*.
caruifer (Fabricius), Ent. Syst. Suppl., p. 535, 1798, *Cimex*.
 Coquebert, Illust. Icon. Ins., ii, p. 81, pl. 19, fig. 3, 1801, *Cimex*.
 Fabricius, Syst. Rhyn., p. 117, 1803, *Cimex*.
 Hahn, Wanz. Ins., ii, p. 117, 1834, *Eysarcoris*.
 Kirby, Richardson's Fauna Bor. Am., iv, p. 275, 1837, *Pentatoma*.
 Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 153, 1853, *Pentatoma*.
 Walker, Cat. Heter., ii, p. 274, 1867, *Eysarcoris*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
 Stål, Hemip. Fabr., i, p. 28, 1868.
 Stål, Enum. Hemip., ii, p. 18, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 402, 1877;
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878. [iv, p. 504, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 41, 1885.
 Montandon, Proc. U. S. Natl. Mus., xvi, p. 46, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.
luteicriana Kirkaldy, Cat. Hemip., i, p. 80, 1909 (n.n. for *caruifer* Fabr.)
 Localities: Quebec, Ont., Nov. Sco., Me., N. H., Mass., N. Y., N. J.,
 Pa., D. C., N. C., Ga., Miss., Ohio, Ill., Mo., Neb., Kan., Okl.,
 Texas, Colo., Utah, Mont., Ariz., Wash.

150. *Cosmopepla uhleri* Montd.

- Montandon, Proc. U. S. Natl. Mus., xvi, p. 48, 1893.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. I, p. 177, 1906.
 Localities: Neb., Ariz., Nevada, Calif.

151. *Cosmopepla conspiciellaris* (Dall.)

- Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 153, 1853, *Pentatoma*.
 Stål, Enum. Hemip., ii, p. 19, 1872.
 Uhler, Wheeler's Surv., 100th Merid., v, p. 830, 1875.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 53, pl. 5, fig. 8, 1880.
 Montandon, Proc. U. S. Natl. Mus., xvi, pp. 46, 49, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.

Gillette and Baker, Hemip. Colo., p. 14, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.

Localities: Colo., Utah, Mont., Calif., Oregon, Wash., Vane. Isl.

152. *Cosmopepla binotata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 327, pl. 31, fig. 7, 1889.

Montandon, Proc. U. S. Natl. Mus., xvi, pp. 46, 49, 1893.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Localities: Wis., Ariz. (Mexico.)

153. *Cosmopepla decorata* (Hahn)

Hahn, Wanz. Ins., ii, p. 117, fig. 198, 1834, *Eysarcoris*.

Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris*.

Herrieh-Schaeffer, Wanz. Ins., vii, 96, 1853, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 19, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 53, 1880.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 46, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.

Barber, Brookl. Inst., Sci. Bul., i, p. 259, 1906.

Localities: Ariz., Texas. (Mexico.)

Genus *Eysarcoris* Hahn

Logotype *perlatus* Fabr. = *aeneus* Scop.

Hahn, Wanz. Ins., ii, p. 66, 1834.

Spinola, Tavola Sinot., p. 35, 1850. (Spelled *Cysarcoris* by error.)

Dallas, List of Hemip., i, p. 224, 1851.

Stål, Hemip. Afr., i, p. 135, 1864.

Douglas and Scott, Br. Hemip., p. 74, 1865.

Stål, Of. Vet. Akad. Forh., xxix, p. 37, 1872.

Kirkaldy, Cat. Hemip., i, p. 82, 1909. (Names *aeneus* type.)

†*Eusarcoris* Fieber, Europ. Hemip., pp. 79, 331, 1861.

Mulsant and Rey, Punaise de Fr., Pent., p. 37, 1866.

Oshanin, Verz. Palae. Hemip., p. 95, 1906.

†*Eysarcoris* Stål, Hemip. Afr., i, p. 135, 1864.

†*Eusarcoris* Marshall, Ent. Mo. Mag., iv, pp. 260, 281, 1868.

Distant, Fauna Br. Ind., Rhyn., i, p. 165, 1902.

[Stål.)

Anolocus Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872. (Logotype *misellus*)

154. *Eysarcoris intergressus* Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.

†*melanocephalus* (Uhler), Bul. U. S. Geol. Geog. Surv., i, pl. 19, fig. 7, 1876.

Gillette and Baker, Hemip. Colo., p. 14, 1895, *Neottiglossa*.

Localities: Kan., Colo., Utah, Mont., Idaho, Calif., Vane. Isl.

Genus *Menecles* Stål

Orthotype *incertus* Say

Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.

Zimmer, Univ. Neb. Studies, xi, p. 223, 1912.

155. *Meneclis incertus* (Say)

- Say, Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 762; Compl. Writ., i.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867. [p. 317, *Pentatoma*.
 Stål, Enum. Hemip., ii, p. 31, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
 Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.
 Localities: Ont., Mass., N. Y., N. J., Pa., Ohio, Ill., Mo., Neb.,
 Kan., Ark., Ariz., Calif.

Genus *Prionosoma* Uhl.Haplotype *podopioides* Uhl.

- Uhler, Proc. Am. Ent. Soc., ii, p. 363, 1863.
 Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

156. *Prionosoma podopioides* Uhl.

- Uhler, Proc. Am. Ent. Soc., ii, p. 364, 1863.
 Stål, Enum. Hemip., ii, p. 33, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876; iii, p. 401, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
 Gillette and Baker, Hemip. Colo., p. 13, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
 Van Duzee, Can. Ent., xlv, p. 325, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.
villosum Prov., Pet. Faune Ent. Can., iii, p. 204, 1889.
 Localities: Neb., Colo., Utah, N. Mex., Ariz., Nev., Calif., Vanc.
 Isd.

Genus *Thyanta* StålLogotype *perditor* Fabr.

- Stål, Rio Jan. Hemip., ii, p. 58, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 529, 1867.
 Stål, Enum. Hemip., ii, p. 34, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 42, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904. (Key.)
 Kirkaldy, Cat. Hemip., i, p. 94, 1909. (Names *perditor* type.)
 Zimmer, Univ. Neb. Studies, xi, pp. 222, 232, 1912.

157. *Thyanta perditor* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 102, 1794, *Cimer*.
 Fabricius, Syst. Rhyng., p. 163, 1803, *Cimer*.
 Dallas, List of Hemip., i, p. 206, 1851, *Euschistus*.
 Guérin in Sagra, Hist. de Cuba, Ins., p. 367, 1857, *Pentatoma*.
 Stål, Stet. Ent. Zeit., xxiii, p. 104, 1862.
 Walker, Cat. Heter., ii, p. 247, 1867, *Euschistus*.
 Stål, Hemip. Fabr., i, p. 29, 1868.

- ?Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 404, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
 Distant, Biol. Centr. Am., Heter., i, p. 66, 1880.
 Berg., Hemip. Argent. Add., p. 182, 1884.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 53, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 9, 1907.
 Zimmer, Univ. Neb. Studies, xi, p. 232, 1912. [fig. 8, 1805, *Pentatoma*.
fascifera (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 160, pl. Hémip. 10,
collaris (Westwood), Hope Cat., i, p. 40, 1837, *Pentatoma*.
dimidiatus (Herrich-Schaeffer), Wanz. Ins., vi, p. 66 (under name *trans-*
versalis), fig. 629, 1842, *Cimex*.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma*. (Herrich-
 Schaeffer has here transferred the name and reference for this
 species to the one preceding it.)
 ?*rubiginosus* (Dallas), List of Hemip., i, p. 206, 1851, *Euschistus*.
fasciatus (Walker), Cat. Heter., ii, p. 245, 1867, *Euschistus*.
adjunctus (Walker), Cat. Heter., ii, p. 249, 1867, *Euschistus*.
 Localities: Fla., Ariz. (Neotropical.) (More northerly localities
 probably refer to the next.)

158. *Thyanta custator* (Fabr.)

- Fabricius Syst. Rhyng., p. 164, 1803, *Cimex*.
 Dallas, List of Hemip., i, p. 251, 1851, *Pentatoma*.
 Stål, Rio Jan. Hemip., ii, p. 58, 1862.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.
 Stål, Enum. Hemip., ii, p. 34, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 404, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 42, 1885.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 53, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 260, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
 Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 84, 1910.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 109, 1911.
 Zimmer, Univ. Neb. Studies, xi, p. 232, 1912.
 Localities: Quebec, Mass., Conn., N. Y., N. J., Pa., N. C., Ga.,
 Fla., Miss., Tenn., Ia., Dak., Neb., Mo., Colo., Utah, Texas,
 Ariz., Calif., Oregon, Vane. Isd.

159. *Thyanta pallido-virens* (Stål)

- Stål, Freg. Eug. Resa, Ins., p. 227, 1859, *Pentatoma*.
 Stål, Rio Jan. Hemip., ii, p. 58, 1862.
 Stål, Enum. Hemip., ii, p. 35, 1872.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.
 ?*custator* Kirkaldy, Cat. Hemip., i, p. 94, 1909 (in part).
 Locality: Calif.

160. *Thyanta calceata* (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 765; Compl. Writ., i, p. Barber, Jl. N. Y. Ent. Soc., xix, p. 108, 1911. [320, *Pentatoma*.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912. [toma.

scutator (Herrich-Schaeffer), Wanz. Ins., vii, p. 106, fig. 771, 1844, *Penta-*

Localities: Conn., N. Y., N. J., Va., N. C.

161. *Thyanta casta* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 104, 1862.

Distant, Biol. Centr. Am., Heter., i, p. 66, pl. 5, fig. 19, 1880.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 174.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1904.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 125, 1912.

Localities: Fla., N. Mex., Ariz., Calif. (Neotropical.)

162. *Thyanta antiguensis* (Westw.)

Westwood, Hope Cat., i, p. 36, 1837, *Pentatoma*.

Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 260, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 9, 1907.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 125, 1912.

lucicola (Dallas), List of Hemip., i, p. 250, 1851, *Pentatoma*.

Stål, Rio Jan. Hemip., ii, p. 58, 1862.

Stål, Enum. Hemip., ii, p. 35, 1872.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173.

Localities: Fla., Ariz., Texas, Calif. (Neotropical.)

163. *Thyanta rugulosa* (Say)

Say, Het. N. Harm., p. 7, 1831; Fitch reprint, p. 764; Compl. Writ., i, p. 319, Stål, Enum. Hemip., ii, p. 35, 1872. [*Pentatoma*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876; iii, p. 403, 1877.

Uhler, Wheeler's Rept. Chief of Eng. for 1877, p. 1324.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1909.

Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.

Localities: Neb., Colo., Utah, Mont., Ariz., Calif.

164. *Thyanta punctiventris* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 55, 1904.

Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.

Localities: N. D., Neb., Colo., Utah, Calif.

165. *Thyanta brevis* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 56, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 260, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

Localities: Colo., Utah, Idaho, Texas, Ariz., Calif.

Genus **Chlorocoris** Spin.Haplotype *tau* Spin.

Spinola, Essai sur les Hémip., p. 288, 1837 (1840).

Dallas, List of Hemip., pp. 151, 166, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.

Stål, Enum. Hemip., ii, p. 35, 1872.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910. [*planata* = *tau* Spin.]*Thelima* Amyot and Serville, Hemip., p. 107, 1843. (Haplotype *com*-Subgenus **Chlorocoris** Spin.

Stål, Enum. Hemip., ii, p. 35, 1872.

166. **Chlorocoris atrispinus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 99, 1862.

Stål, Enum. Hemip., ii, p. 35, 1872.

Distant, Biol. Centr. Am., Heter. i, p. 67, pl. 5, fig. 21, 1880.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Localities: N. Mex. (Neotropical.)

Subgenus **Monochrocerus** StålLogotype *rufispinus* Dall.

Stål, Enum. Hemip., ii, p. 35, 1872.

Kirkaldy, Cat. Hemip., i, p. 95, 1909. (Names *rufispinus* type.)167. **Chlorocoris subrugosus** Stål

Stål, Enum. Hemip., ii, p. 36, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 68, pl. 6, fig. 21, 1880.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Localities: Ariz. (Mexico.)

168. **Chlorocoris flaviviridis** Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 164, 1914.

†*rufopictus* Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Locality: Ariz.

169. **Chlorocoris hebetatus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 335, pl. 31, fig. 16, 1890.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.

Localities: Ariz. (Mexico.)

Genus **Loxa** Am. & Serv.Logotype *flavicollis* Drury

Amyot and Serville, Hémip., p. 137, 1843.

Dallas, List of Hemip., i, pp. 193, 198, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.

Stål, Enum. Hemip., ii, p. 36, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 70, 1880.

Kirkaldy, Cat. Hemip., i, p. 96, 1909. (Names *flavicollis* type.)170. **Loxa flavicollis** (Drury)Drury, Illust. Exot. Ent., ii, p. 67, pl. 36, fig. 4, 1773, *Cimex*.

Stoll, Punnais, pp. 81, 82, figs. 196, 198, 200, 1792. (No name.)

Amyot and Serville, Hémip., p. 137, 1843.

Dallas, List of Hemip., i, p. 198, 1851.

- Walker, Cat. Heter., iii, p. 549, 1868.
 Stål, Enum. Hemip., ii, p. 36, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 70, 1880.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 441, 1899 (excl. syn).
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
albicollis (Fabricius), Spec. Ins., ii, p. 347, 1781, *Cimer*.
 Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimer*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2138, 1788, *Cimer*.
 Fabricius, Ent. Syst., iv, p. 98, 1794, *Cimer*.
 Fabricius, Syst. Rhyng., p. 160, 1803, *Cimer*. [*Pentatoma*.
 Herrich-Schaeffer, Wanz. Ins., vi, p. 68, fig. 634, 1842; vii, p. 94, 1844.
viridis (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 111, pl. Hémip. 8, fig. 1,
 [1805, *Pentatoma*.
virescens Amyot and Serville, Hémip., p. 137, pl. 3, fig. 3, 1843.
 (Not *deducta* Walker, Cat. Heter., ii, p. 242, 1867.)
 Localities: Texas, N. Mex. (Neotropical.)

171. ***Loxa florida*** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 156, 1909.
flavicollis Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904 (in part).
 Locality: Fla.

Genus ***Murgantia*** Stål

Logotype *tessellata* Am. & Serv.

- Stål, Stet. Ent. Zeit., xxiii, p. 105, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 529, 1867.
 Stål, Enum. Hemip., ii, p. 37, 1872.
 Kirkaldy, Cat. Hemip., i, p. 106, 1909. (Names *tessellata* type.)
 Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

172. ***Murgantia histrionica*** (Hahn)

- Hahn, Wanz. Ins., ii, p. 116, fig. 196, 1834, *Strachia*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 93, 1853, *Eurydema*.
 Stål, Stet. Ent. Zeit., xxii, p. 141, 1861, *Strachia*.
 Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.
 Stål, Enum. Hemip., ii, p. 37, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876; iii, p. 404, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
 Distant, Biol. Centr. Am., Heter., i, p. 71, pl. 7, fig. 21, 1880.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, 121, 1893.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906.
 Morrill, U. S. Dept. Agr., Bur. Ent., Circ. 103, 1908.
 Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.
nigricans Cockerell, Bul. S. Calif. Acad. Sci., ii, p. 85, 1903 (a dark form).
 Localities: N. Y., N. J., Pa., Del., D. C., Md., N. C., Ga., Fla.,
 La., Ohio, Ill., Mo., Neb., Kans., Colo., N. Mex., Texas, Ariz.,
 Nev., Calif.

173. *Murgantia varicolor* (Westw.)

- Westwood, Hope Cat., i, p. 37, 1837, *Pentatoma*.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
munda (Dallas), List of Hemip., i, p. 264, 1851, *Strachia*.
 Stål, Of. Vet. Akad. Forh., xix, p. 497, 1862, *Strachia*.
 Walker, Cat. Heter., ii, p. 316, 1867.
 Stål, Enum. Hemip., ii, p. 37, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 71, pl. 7, fig. 20, 1880.
 ||*munda* Stål, Stet. Ent. Zeit., xxii, p. 141, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.
 Uhler, Check List, p. 7, 1886.
 Localities: "West States" (Uhler). (Neotropical.)

174. *Murgantia violascens* (Westw.)

- Westwood, Hope Cat., i, p. 34, 1837, *Pentatoma*.
 Dallas, List of Hemip., i, p. 263, 1851, *Strachia*.
 Stål, Of. Vet. Akad. Forh., xix, p. 467, 1862.
 Stål, Enum. Hemip., ii, p. 37, 1872.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
concinna (Dallas), List of Hemip., i, p. 265, 1851, *Strachia*.
 Localities: Fla. (West Indies.)

175. *Murgantia(?) angularis* (Walk.)

- Walker, Cat. Heter., ii, p. 315, 1867, *Strachia*.
 Locality: N. Am.

Genus *Vulsirea* Spin.

Logotype *nigrorubra* Spin. = *violacea* Fabr.

- Spinola, Essai sur les Hémipt., p. 350, 1837 (1840).
 Amyot and Serville, Hémip., p. 142, 1843.
 Herrich-Schaeffer, Wanz., Ins., viii, p. 12, 1848.
 Dallas, List of Hemip., i, pp. 196, 271, 1851.
 Stål, Stet. Ent. Zeit., xxii, p. 139, 1861.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 531, 1867.
 Stål, Enum. Hemip., ii, p. 39, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 75, 1880.
 Kirkaldy, Cat. Hemip., i, p. 112, 1909. (Names *violacea* type.)
 †*Rhaphigaster* Spinola, Tavola Sinot., p. 34, 1850 (part).

176. *Vulsirea violacea* (Fabr.)

- Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex*.
 Stoll, Punnais, p. 62, fig. 133, 1792 (without name).
 Herrich-Schaeffer, Wanz. Ins., iv, p. 89, fig. 425, 1839, *Cimex*.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 95, 1844, *Pentatoma*.
 Stål, Hemip. Fabr., i, p. 31, 1868.
 Stål, Enum. Hemip., ii, p. 39, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 76, 1880.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 391, 1900.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
abdominalis (Westwood), Hope Cat., i, p. 32, 1837, *Rhaphigaster*.
superba Walker, Cat. Heter., ii, p. 354, 1867.

a. var. **lativentris** Walker

Walker, Cat. Heter., ii, p. 353, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 76, 1880. [1868.

tau Vollenhoven, Versl. Med. Kon. Akad. Wet., Amst., Ser. 2, ii, p. 186.

b. var. **ancora** Spin.

Spinola, Essai sur les Hémipt., p. 351, 1837 (1840).

Amyot and Serville, Hémipt., p. 143, 1843.

Herrich-Schaeffer, Wanz. Ins., viii, p. 12, 1845.

Dallas, List of Hemip., i, p. 272, 1851.

Stål, Enum. Hemip., ii, p. 39, 1872.

c. var. **nigro-rubra** Spin.

Spinola, Essai sur les Hémipt., p. 351, 1837 (1840).

Amyot and Serville, Hémipt., p. 143, 1843.

Dallas, List of Hemip., i, p. 271, 1851.

Stål, Of. Vet. Akad. Forh., xiii, p. 60, 1856.

Guerin in Sagra, Hist. de Cuba, Ins., p. 372, 1857, *Pentatoma*.*ponderosa* (Stål), Of. Vet. Akad. Forh., xi, p. 233, 1854, *Strachia*.

Localities: Fla. (Neotropical.)

Genus **Runibia** StålLogotype *perspicua* (Fabr.)

Stål, Stet. Ent. Zeit., xxii, pp. 140, 141, 1861.

Stål, Of. Vet. Akad. Forh., xxv, p. 529, 1867.

Stål, Enum. Hemip., ii, p. 38, 1872.

Kirkaldy, Cat. Hemip., i, p. 110, 1909. (Names *perspicua* Fabr. type.)177. **Runibia(?) proxima** (Dall.)Dallas, List of Hemip., i, p. 255, 1851, *Pentatoma*.

Stål, Stet. Ent. Zeit., xxii, p. 141, 1861.

Walker, Cat. Heter., ii, p. 317, 1867, *Strachia*.

Stål, Enum. Hemip., ii, p. 39, 1872.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.

Localities: Texas. (West Indies.)

Genus **Nezara** Am. & Serv.Logotype *smaragdula* (Fabr.) = *viridula* (Linn.)

Amyot and Serville, Hémipt., p. 143, 1843.

Dallas, List of Hemip., i, p. 274, 1851. (Subgen. of *Rhaphigaster*.)

Fieber, Europ. Hemip., pp. 78, 329, 1861.

Stål, Hemip. Afr., i, pp. 192, 193, 1864.

Mulsant and Rey, Punnais. de Fr., Pent., p. 288, 1866.

Stål, Of. Vet. Akad. Forh., xxiv, pp. 514, 530, 1867.

Stål, Enum. Hemip., ii, p. 40, 1872.

Stål, Of. Vet. Akad. Forh., xxix, p. 38, 1872.

Stål, Enum. Hemip., v, p. 63, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 77, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904. (Key.)

Kirkaldy, Cat. Hemip., i, p. 115, 1909. (Names *viridula* type.)

Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.

Bergroth, Ann. Soc. Ent. Belg., lviii, p. 25, 1914.

178. *Nezara viridula* (Linn.)

- Linnaeus, Syst. Nat., Edn. 10, i, p. 444, 1758, *Cimex*.
 Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 721, 1767, *Cimex*.
 Fabricius, Ent. Syst., p. 710, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 196, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 354, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 291, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2150, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 109, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 166, 1803, *Cimex*.
 Stål, Hemip. Afr., i, p. 193, 1864.
 Stål, Hemip. Fabr., i, p. 31, 1868.
 Gerstecker, Decker, Reisen in Ost. Afr., iii, p. 401, 1873.
 Stål, Enum. Hemip., ii, p. 41, 1872; v, p. 91, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 78, 1880.
 Reuter, Rev. Synon., p. 126, No. 57, 1888.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 176.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 392, 1900.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 813.
 Distant, Fauna Br. Ind., i, p. 220, 1902.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907; ix, p. 157, 1909.
 Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 82, 1910.
 variabilis (Villers), Ent., p. 505, 1789, *Cimex*.
 †*smaragdula* (Dufour), Recher. Hemip., p. 157, 1833, *Pentatoma*.
 Amyot and Serville, Hémip., p. 141, 1843.
 Gorski, Anal. Ent., i, p. 103, 1852, *Pentatoma*.
 Guerin in Sagra, Hist. de Cuba, Ins., p. 373, 1857, *Pentatoma*.
 Fieber, Europ. Hemip., p. 330, 1861.
 beryllina (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
 hemichloris (Germar), Silb. Rev., v, p. 166, 1837, *Cimex*.
 approximata Reiche and Fairmaire, Voy. Abyss., p. 443, 1847.
 prasinus (Dallas), List of Hemip., i, p. 274, 1851, *Rhaphigaster*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 182, 1853, *Rhaphigaster*.
 Mulsant and Rey, Punnais. de Fr., Pent., p. 295, 1866.
 orbis (Stål), Of. Vet. Akad. Forh., x, p. 221, 1853, *Rhaphigaster*.

a. var. *smaragdula* (Fabr.)

- Fabricius, Syst. Ent., p. 711, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 246, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 354, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 292, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2153, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 109, 1794, *Cimex*.
 Wolff, Icon. Cimic., ii, p. 56, fig. 53, 1801, *Cimex*.
 Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster*.
 Costa, Cimic. Neap. Cent., i, p. 56, 1838, *Pentatoma*.
 spirans (Fabricius), Ent. Syst., Suppl., p. 533, 1798, *Cimex*.
 Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex*.
 viridissimus (Wolff), Icon. Cimic., ii, p. 55, fig. 52, 1801, *Cimex*.

unicolor (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
subsericea (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.

Dallas, List of Hemip., i, p. 275, 1851, *Rhaphigaster*.
leii (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
3-punctigera (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
prorima (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
chinensis (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma*.
propinqua (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma*.
plicaticollis (Lucas), Exped. Alg., p. 87, pl. 3, fig. 9, 1849, *Pentatoma*.

b. var. torquata (Fabr.).

Fabricius, Syst. Ent., p. 710, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 245, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 353, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 291, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2150, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 108, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 160, 1803, *Cimex*.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 190, 1804, *Pentatoma*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster*.
 Herrich-Schaeffer, Wanz. Ins., iv, p. 100, fig. 447, 1839, *Rhaphigaster*.
 Stål, Of. Vet. Akad. Forh., xii, p. 345, 1855, *Rhaphigaster*.
transversus (Thunberg), Diss. Ent., Nov. Ins., ii, p. 40, 1783, *Cimex*.
flavicornis (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 185, 1805, *Pentatoma*.
flavicornis (Palisot-Beauvois), Ins. Rec. Afr. Am., pl. Hémip., 11, fig. 4,
 [1805, *Pentatoma*.
oblonga (Westwood), Hope Cat., i, p. 37, 1837, *Pentatoma*.
vicaria (Walker), Cat. Heter., ii, p. 303, 1867, *Pentatoma*.
 Localities: Va., Fla., La. (Warmer parts of the world.)

Genus *Acrosternum* Fieb.

Haplotype *heegeri* Fieb.

Fieber, Europ. Hemip., pp. 79, 331, 1861.
 Stål, Of. Vet. Akad. Forh., xxix, p. 38, 1872.
 Stål, Enum. Hemip., ii, p. 41, 1872; v, pp. 63, 90, 1876.
 Kirkaldy, Cat. Hemip., i, p. 118, 1906.
 Bergroth, Ann. Soc. Ent. Belg., lviii, p. 25, 1914.

179. *Acrosternum pennsylvanicum* (De Geer)

De Geer, Mémoires, iii, p. 330, pl. 34, fig. 5, 1773, *Cimex*.
 Gmelin, in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2148, 1788, *Cimex*.
 Palisot-Beauvois, Ins. Rec. Afr. Am., p. 186, pl. Hémip. 11, fig. 5, 1805,
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871, *Rhaphigaster*. [*Pentatoma*.
 Stål, Enum. Hemip., ii, p. 42, 1872.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878, *Rhaphigaster*.
 Uhler, Check List, p. 8, 1886.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 55, 1912. [Writ., i, p. 317, *Pentatoma abrupta* (Say), Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 761; Compl. *parnisus* (Dallas), List of Hemip., i, p. 279, 1851, *Rhaphigaster*.

Kirkaldy, Cat. Hemip., i, p. 121, 1909.

Localities: Quebec, Mass., N. Y., N. J., Pa., Ga., Fla., Ohio, Ill., Ia.

180. *Acrosternum marginatum* (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 147, pl. Hémip. 10, fig. 1, 1805, Amyot and Serville, Hémip., p. 143, 1843. [*Pentatoma*.

Guerin in Sagra, Hist. de Cuba, Ins., p. 374, 1857, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 42, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 79, pl. 7, fig. 23, 1880.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 175.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907.

†*spirans* (Dallas), List of Hemip., i, p. 280, 1851, *Rhaphigaster*.

†*urgiosa* Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.

Localities: Fla., Texas, Ariz., Calif. (Neotropical.)

181. *Acrosternum hilaris* (Say)

Say, Ins. of La., p. 9, 1832; Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 761; Compl. Writ., i, pp. 304, 316, *Pentatoma*.

Walker, Cat. Heter., iii, p. 566, 1868, *Rhaphigaster*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878, *Nezara*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893, *Nezara*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, 172, 1894, *Nezara*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904, *Nezara*.

Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906, *Nezara*.

Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 78, 1910, *Nezara*.

Zimmer, Univ. Neb. Studies, xi, p. 233, 1912, *Nezara*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.

sarpinus (Dallas), List of Hemip., i, p. 276, 1851, *Rhaphigaster*.

Walker, Cat. Heter., ii, p. 357, 1867, *Rhaphigaster*.

†*pennsylvanicus* (Fitch), 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 389, [1856, *Rhaphigaster*.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., La., Ia., Neb., Kan., Colo., Utah, Mont., Texas, Ariz., Calif.

Genus *Banasa* Stål

Logotype *induta* Stål

Stål, Rio Jan. Hemip., i, p. 24, 1860.

Stål, Enum. Hemip., ii, p. 43, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 79, 1880.

Provancher, Pet. Faune Ent. Can., iii, p. 45, 1885.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 59, 1904. (Key.)

Kirkaldy, Cat. Hemip., i, p. 115, 1909. (Names *induta* Stål type.)

Atomosira Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871. (Haplo-

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878. [type *sordida* Uhl.]

182. *Banasa dimidiata* (Say)

Say, Heter. N. Harm., p. 7, 1831; Fitch reprint, p. 763; Compl. Writ., i, p. Stål, Enum. Hemip., ii, p. 43, 1872. [318, *Pentatoma*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.

Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.

Van Duzee, Can. Ent., xlv, p. 318, 1912.

Zimmer, Univ. Neb. Studies, xi, p. 234, 1912.

†*calva* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1874.

†*teuchlora* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.

‡*dimidiata* Kirkaldy, Cat. Hemip., i, p. 122, 1909.

Localities: Quebec, Ont., Mass., N. Y., Pa., Md., D. C., N. C., Ga., Fla., N. D., Neb., Colo., Utah, Mont., Okl., Texas, Calif., Vanc. Isl.

183. *Banasa subrufescens* (Walker)

Walker, Cat. Heter., ii, p. 290, 1867, *Pentatoma*.

Kirkaldy, Cat. Hemip., i, p. 122, 1909.

‡*dimidiatus* (Stål) Rio Jan. Hemip., i, p. 22, 1860, *Rhaphigaster*.

basalis (Walker), Cat. Heter., ii, p. 291, 1867, *Pentatoma*.

derivatus (Walker), Cat. Heter., ii, p. 361, 1867, *Rhaphigaster*.

varians Stål, Enum. Hemip., ii, p. 43, 1872 (n.n. for *dimidiatus* Stål).

Distant, Ann. Mag. Nat. Hist., Ser. 7, v, pp. 393, 433, 1900.

Distant, Biol. Centr. Am., Heter., i, p. 80, pl. 7, fig. 7, 1880.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.

Localities: N. Mex. (Neotropical.)

184. *Banasa calva* (Say)

Say, Heter. N. Harm., p. 7, 1832; Fitch reprint, p. 763; Compl. Writ., i, p. [318, *Pentatoma*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876; iii, p. 404, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 379, 1878, *Atomosira*.

Lethierry and Severin, Cat. Génl. Hémipt., i, p. 198, 1893, *Pentatoma*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.

Gillette and Baker, Hemip. Colo., p. 17, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 59, 1904.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 23, 1910.

catinus (Dallas), List of Hemip., i, p. 282, 1851, *Rhaphigaster*.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 23, 1910.

‡*dimidiata* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.

Localities: "Canada," N. Y., Pa., Va., N. C., Ga., Colo., Mont.

185. *Banasa lenticularis* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 174.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.

Localities: Fla. (West Indies.)

186. *Banasa sordida* (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871, *Atomosira*.

Stål, Enum. Hemip., ii, p. 41, 1872.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Atomosira*.

Gillette and Baker, Hemip. Colo., p. 17, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.

Localities: Mass., Md., Va., Colo., N. Mex., Ariz., Calif., Vauc.
Isd.

187. **Banasa packardi** Stål

Stål, Enum. Hemip., ii, p. 43, 1872.

Smith, Cat. Ins. N. J., Edn. 2, p. 121, 1900.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.

Localities: N. J., N. C., Ga., Fla.

188. **Banasa euchlora** Stål

Stål, Enum. Hemip., ii, p. 44, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

Localities: Md., S. C., Ga., Fla., Ia., Okl., Texas.

189. **Banasa imbuta** (Walk.)

Walker, Cat. Heter., ii, p. 358, 1867, *Rhaphigaster*.

Distant, Biol. Centr. Am., Heter., i, p. 80, pl. 7, fig. 10, 1880.

Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906.

Localities: Texas. (Mexico.)

Genus **Piezodorus** Fieb.

Haplotype *degeeri* Fieb. = *lituratus* (Fabr.)

Feiber, Europ. Hemip., pp. 78, 329, 1861.

Stål, Hemip., Afr., i, p. 198, 1864 (as subgen. of *Nezara*.)

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 38, 1872.

Stål, Enum. Hemip., ii, p. 44, 1872; v, pp. 66, 100, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 81, 1880.

190. **Piezodorus guildinii** (Westw.)

Westwood, Hope Cat., p. 31, 1837, *Rhaphigaster*.

Dallas, List of Hemip., i, p. 283, 1851, *Rhaphigaster*.

Stål, Enum. Hemip., ii, p. 45, 1872.

‡*guildani* (Herrich-Schaeffer), Wanz. Ins., Verz., p. 181, 1853, *Rhaphigaster*.

‡*guildingi*, Uhler, Proc. Zool. Soc. Lond. for 1894, p. 175.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

[1909.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907; ix, p. 157,

Localities: Ga., Fla., N. Mex. (West Indies.)

191. **Piezodorus(?) lituratus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 114, 1794, *Cimex*.

Wolff, Icon. Cimic., i, p. 14, fig. 14, 1800, *Cimex*.

Fabricius, Syst. Rhyng., p. 170, 1803, *Cimex*.

Burmeister, Handb. d. Ent., ii, p. 365, 1835, *Cimex*.

Stål, Hemip. Fabr., i, p. 31, 1868.

Vollenhoven, Hemip. Neerl., p. 41, 1878, *Cimex*.

Reuter, Berl. Ent. Zeit., xxix, p. 42, 1885.

Reuter, Rev. Synon., p. 127, 1888.

||*bilobus* (Gmelin) in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2149, 1788.
incarnata (Germar), Fauna Ins. Europ., iv, p. 23, 1818, *Pentatoma*. [*Cimex*.

Herrieh-Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster*.

Spinola, Essai sur les Hémip., p. 350, 1837 (1840), *Rhaphigaster*.

Kolenati, Melet. Ent., iv, p. 56, 1845, *Rhaphigaster*.

Mulsant and Rey, Punais. de Fr., Pent., p. 301, 1866.

Puton, Cat. Hémip. Palae., Edn. 3, p. 13, 1886.

Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 421, 1900.

Distant, Proc. Zool. Soc. Lond. for 1900, p. 823.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

purpuripennis (Hahn), Wanz. Ins., ii, p. 62, fig. 151, 1834, *Pentatoma*.

Rambur, Fauna And., p. 125, 1842, *Rhaphigaster*.

Amyot and Serville, Hémip., p. 148, 1843, *Rhaphigaster*.

Gorski, Anal. Ent., i, p. 101, 1852, *Pentatoma*.

Herrieh-Schaeffer, Wanz. Ins., Verz., p. 183, 1853, *Rhaphigaster*.

Douglas and Scott, Br. Hemip., p. 100, 1865.

[Not *Cimex purpureipennis* De Geer, which is a *Carpocoris*.]

punctulatus (Westwood), Hope Cat., i, p. 31, 1837, *Rhaphigaster*.

†*purpuripenne* (Blanchard), Hist. des Ins., Hémip., p. 149, 1840, *Pentatoma*.
degeeri Fieber, Europ. Hemip., p. 329, 1861.

[The var. *aliaceum* Germ. has not been taken here.]

Localities: Fla. (Europe.)

Genus *Arvelius* Spin.

Logotype *gladiator* (Fabr.) = *albopunctatus* (De Geer)

Spinola, Essai sur les Hémip., p. 344, 1837 (1840).

Amyot and Serville, Hémip., p. 150, 1843.

Spinola, Tavola Sinot., p. 34, 1850.

Dallas, List of Hemip., i, p. 301, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 531, 1867.

Walker, Cat. Heter., iii, p. 572, 1868.

Distant, Biol. Centr. Am., Heter., i, p. 82, 1880.

Kirkaldy, Cat. Hemip., i, p. 150, 1909. (Names *albopunctatus* type.)

192. *Arvelius albopunctatus* (De Geer)

De Geer, Mémoires, iii, p. 331, pl. 34, fig. 6, 1773, *Cimex*.

Goeze, Ent. Beytr., ii, p. 243, 1778, *Cimex*.

Amyot and Serville, Hémip., p. 150, 1843.

Dallas, List of Hemip., i, p. 302, 1851.

Guerin in Sagra, Hist. de Cuba, Ins., p. 374, 1857, *Pentatoma*.

Stål, Stet. Ent. Zeit., xxiii, p. 108, 1862.

Stål, Enum. Hemip., ii, p. 47, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876.

Berg, Hemip. Argent., p. 59, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 82, 1880.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

Barber, Brookl. Inst., Sci. Bul., i, p. 261, 1906.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.
gladiator (Fabricius), Syst. Ent., p. 705, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1778, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 101, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 162, 1803, *Cimex*. [Pentatoma.
 Palisot-Beauvois, Ins. Rec. Afr. Am., p. 127, pl. Hémip. 9, fig. 1, 1805,
 Le Peletier and Serville, Eneye. Meth., x, p. 56, 1825, *Pentatoma*.
 Burmeister, Handb. d. Ent., ii, p. 359, 1835, *Acanthosoma*.
 Spinola, Essai sur les Hemip., p. 346, 1837 (1840).
 Herrich-Schaeffer, Wanz. Ins., v, p. 104, fig. 557, 558, 1839.
 Blanchard, Hist. de Ins., Hémip., p. 146, 1840, *Acanthosoma*.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 5, 1848, *Acanthosoma*.
leucostictus (Gmelin) in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2148,
 ——— Stoll, Abh. Wanz., p. 13, fig. 12, 1792 (without name). [1788, *Cimex*.
luteicornis (Westwood), Hope. Cat., i, p. 30, 1837, *Acanthosoma*.
 Localities: Fla., Texas, Ariz., Calif.

Genus **Neopharnus** Van D.

Orthotype *fimbriatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 73, 1910.

193. **Neopharnus fimbriatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 73, 1910.

Locality: Fla.

Genus **Dendrocoris** Bergr.

Haplotype *humeralis* Uhl.

- Bergroth, Revue d'Ent., x, p. 228, 1891 (n.n. for *Liotropis* Uhl.)
 Barber, Brookl. Inst. Sci. Bul., i, p. 262, 1906.
 Kirkaldy, Cat. Hemip., i, p. 151, 1909.
 Barber, Ent. News, xxii, p. 268, 1911.
 Bergroth, Ann. Soc. Ent. Fr., lxxxiii, pp. 438, 439, 1915. (Key.)
 ||*Liotropis* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 399, 1877.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904. (Key.)

194. **Dendrocoris humeralis** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 400, 1877, *Liotropis*.
 Bergroth, Revue d'Ent., x, pp. 228, 229, 1891.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904, *Liotropis*.
 Barber, Ent. News, xxii, p. 269, 1911.
 Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.
 Localities: Vt., Mass., N. J., Pa., Md., W. Va., Ga., Ohio, Ia.,
 Kan., Colo., Calif. (?)

195. **Dendrocoris fruticicola** Bergr.

- Bergroth, Revue d'Ent., x, p. 228, 1891.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904, *Liotropis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.

Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.

Barber, Ent. News, xxii, p. 269, 1911.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.

Localities: N. C., Fla.

196. *Dendrocoris reticulatus* Barb.

Barber, Ent. News, xxii, p. 270, 1911.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 439, 1915.

†*fruticicola* Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.

Localities: New Mex., Ariz., Calif.

197. *Dendrocoris arizonensis* Barb.

Barber, Ent. News, xxii, p. 270, 1911.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.

Locality: Ariz.

198. *Dendrocoris pini* Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 51, 1893.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904, *Liotropis*.

Barber, Ent. News, xxii, p. 269, 1911.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 439, 1915.

Localities: Colo., Utah, Texas, Ariz., Calif.

199. *Dendrocoris contaminatus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 390, 1897.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904, *Liotropis*.

Osborn, Ent. News, xx, p. 177, 1909, *Liotropis* (on cactus).

Barber, Ent. News, xxii, p. 269, 1911.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.

Localities: Utah, Texas, N. Mex., Ariz., Calif.

Genus *Odmalea* Bergr.

Orthotype *quadripunctula* Bergr.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 436, 1915.

200. *Odmalea schaefferi* (Barb.)

Barber, Brookl. Inst. Sci. Bul., i, p. 262, 1906, *Dendrocoris*.

Barber, Ent. News, xxii, p. 269, 1911, *Dendrocoris*.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, pp. 438, 439, 1915, *Dendrocoris*.

Locality: Texas.

Genus *Brepholoxa* Van D.

Haplotype *heidemanni* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.

Van Duzee, Can. Ent., xli, p. 384, 1909.

201. *Brepholoxa heidemanni* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.

Locality: Fla.

TRIBE EDESSINI Kirk.

Kirkaldy, Cat. Hemip., i, pp. 34, 153, 1909.

Genus *Edessa* Fabr.Orthotype *cervus* Fabr.

Fabricius, Syst. Rhyng., p. 145, 1803.

Laporte, Essai Classif. Syst. Hémip., p. 62, 1832.

Burmeister, Handb. d. Ent., ii, p. 353, 1835.

Spinola, Essai sur les Hémip., p. 342, 1837 (1840).

Blanchard, Hist. des Ins., Hémip., p. 143, 1840.

Amyot and Serville, Hémip., p. 158, 1843.

Spinola, Tavola Sinot., p. 32, 1850.

Dallas, List of Hemip., i, pp. 317, 319, 1851.

Stål, Stet. Ent. Zeit., xxiii, p. 109, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 532, 1867.

Stål, Enum. Hemip., ii, p. 49, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 86, 1880. [*bifida* Say.]*Ascrea* Say, Ins. of La., p. 8, 1832; Compl. Writ., i, p. 304. (Haplotype*Dorypleura* Amyot and Serville, Hémip., p. 157, 1843. (Haplotype *bubalus* [Lep.]*Hypoxys* Amyot and Serville, Hémip., p. 157, 1843. (Haplotype *quadridens* [Fabr.]*Pygoda* Amyot and Serville, Hémip., p. 159, 1843. (Haplotype *polita* Lep.)*Accratodes* Amyot and Serville, Hémip., p. 160, 1843. (Haplotype *cruentus* Fabr.)202. *Edessa bifida* (Say)Say, Ins. of La., p. 7, 1832; Heter. N. Harm., p. 9, 1832; Fitch reprint, p. [767; Compl. Writ., i, pp. 303, 322, *Pentatoma*.

Stål, Enum. Hemip., ii, p. 154, 1872.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 176 (in part).

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.

albirenis (Herrich-Schaeffer), Wanz. Ins., vii, p. 127, fig. 774, 1844.Dallas, List of Hemip., i, p. 336, 1851, *Accratodes*.||*cornuta* (Guerin) in Sagra, Hist. de Cuba, Ins., p. 376, 1857, *Pentatoma*.

Localities: Fla., La., Texas.

Subfamily ACANTHOSOMINAE (Stål)

Stål, Hemip. Afr., i, pp. 33, 219, 1864, *Acanthosomida*.Stål, Of. Vet. Akad. Forh., xxiv, p. 532, 1867; xxvii, p. 638, 1870, *Acanthosomina*.Stål, Of. Vet. Akad. Forh., xxix, No. 3, pp. 32, 39, 1872, *Acanthosomina*.Stål, Enum. Hemip., ii, p. 61, 1872; v, p. 108, 1876, *Acanthosomina*.

Distant, Biol. Centr. Am., Heter., i, p. 100, 1881.

Lethierry and Severin, Cat. Génl. Hémip., i, p. 250, 1893, *Acanthosomidac*.Distant, Fauna Br. Ind., Rhyng., i, p. 313, 1902, *Acanthosomatinae*.Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904, *Acanthosomidae*.Oshanin, Verz. Palae., Hemip., i, p. 165, 1906, *Acanthosomina*.Kirkaldy, Cat. Hemip., i, pp. 34, 166, 1909, Tribe *Acanthosomini*.

Oshanin, Kat. Palae., Hemip., p. 17, 1912.

Genus *Meadorus* M. & R.Logotype †*interstinctus* M. & R. = *griseus* (Linn.)

- Mulsant and Rey, Punais. de Fr., Pent., p. 315, 1866.
 Kirkaldy, Cat. Hemip., i, p. 175, 1909. (As synonym; names *griseus* type.)
 †*Clinocoris* Hahn, Wanz. Ins., ii, p. 70, 1834. (Haplotype *haemorrhoidalis*
 Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 39, 1872. [Fabr.]
 Stål, Enum. Hemip., v, pp. 110, 114, 1876.
 Oshanin, Verz. Palae., Hemip., i, p. 170, 1906.
 †*Sastragala* Fieber, Europ. Hemip., pp. 78, 327, 1861.
 •*Elasmucha* Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 54, 1864.
 Stål, Hemip. Afr., i, p. 220, 1864 (*nomen nudum* here).
 Stål, Hemip. Fabr., i, p. 39, 1868. (Includes *ferrugator* and two others.)
 Bergroth, Ent. News, xviii, p. 49, 1907.
 Kirkaldy, Cat. Hemip., i, p. 175, 1909. (Names *ferrugator* type.)
 Oshanin Kat. Palae., Hemip., p. 18, 1912.
 †*Acanthosoma* Distant, Biol. Centr. Am., Heter., i, p. 100, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 47, 1885.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904. (Key.)
 †*Elasmotethus* Lethierry and Severin, Cat. Génl. Hémipt., i, p. 255, 1893.
 Distant, Fauna Br. Ind., Rhyn., i, p. 326, 1902. (Gives *griseum* Linn.
 [as type.]

203. *Meadorus lateralis* (Say)

- Say, Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 757; Compl. Writ., i, p.
 Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma*. [312, *Edessa*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878, *Acanthosoma*.
 Distant, Biol. Centr. Am., Heter., i, p. 101, 1881, *Acanthosoma*.
 Provancher, Pet. Faune Ent. Can., iii, p. 48, 1885, *Acanthosoma*.
 Distant, Proc. Zool. Soc. Lond. for 1900, p. 817, *Acanthosoma*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904, *Acanthosoma*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905, *Acanthosoma*.
 Bergroth, Ent. News, xviii, p. 49, 1907, *Elasmucha*.
 Van Duzee, Can. Ent., xl, p. 109, 1908, *Clinocoris*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910, *Elasmucha*.
 Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 7, p. 15, 1912, *Elas-*
 Horvath, Ann. Mus. Natl. Hung., x, p. 608, 1912, *Elasmucha*. [312, *Edessa*.
nebulosa (Kirby), Richardson's Fauna Bor. Am., iv, p. 277, 1837; Reprint
 [in Can. Ent., x, p. 138, 1878, *Edessa*.
 Dallas, List of Hemip., i, p. 307, 1851, *Acanthosoma*.
 Stål, Stet. Ent. Zeit., xxiii, p. 109, 1862, *Elasmotethus*.
affinis (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma*.
piceolor (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma*.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Vanc. Isd. (Mexico.)

Genus *Elasmotethus* Fieb.Logotype *dentatus* De Geer = *interstinctus* Linn.

- Fieber, Europ. Hemip., pp. 78, 328, 1861.
 Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 54, 1864. (Names *dentatus* De Geer
 Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 39, 1872. [type.]
 Oshanin, Verz. Palae., Hemip., i, p. 168, 1906.
 Bergroth, Ent. News, xviii, p. 49, 1907.

Kirkaldy, Cat. Hemip., i, p. 177, 1909.

Oxydalis Mulsant and Rey, Punnais. de Fr., Pent., p. 324, 1867. (Haplo-
[type *dentatus* De Geer.]

‡*Elasmotethus* Marshall, Ent. Mo. Mag., iv, p. 281, 1868.

204. ***Elasmotethus cruciatus*** (Say)

Say, Heter. N. Harm, p. 2, 1831; Fitch reprint, p. 756; Compl. Writ., i, p. 311,
Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Acanthosoma*. [Edessa.

Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma*.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324, *Acanthosoma*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894, *Acanthosoma*.

Distant, Proc. Zool. Soc. Lond. for 1900, p. 818, *Acanthosoma*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904, *Acanthosoma*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905, *Acanthosoma*.

Bergroth, Ent. News, xviii, p. 49, 1907.

borcalis (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma*.

Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma*.

Localities: Quebec, Ont., N. H., N. Y., N. J., N. C., Colo., Utah,
N. Mex., Vanc. Isd.

205. ***Elasmotethus cooleyi*** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 74, 1904, *Acanthosoma*. (As var.

Bergroth, Ent. News, xviii, p. 49, 1907. [of *cruciata*.)

Locality: Mont.

206. ***Elasmotethus atricornis*** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 75, 1904, *Acanthosoma*.

Bergroth, Ent. News, xviii, p. 48, 1907.

Van Duzee, Can. Ent., xlv, p. 318, 1912.

†*cruciata* (Provancher), Pet. Faune Ent. Can., iii, p. 48, 1885, *Acanthosoma*.

Localities: Quebec, N. Y., Ind.

Subfamily ASOPINAE (Spin.)

Spinola, Tavola Sinot., pp. 29, 30, 1850, *Asopoidae*.

Dallas, List of Hemip., i, p. 75, 1851, Fam. *Asopidae*.

Stål, Hemip. Afr., i, pp. 32, 62, 1864, *Asopida*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867, *Asopina*.

Stål, Enum. Hemip., i, p. 21, 1870, *Asopina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 31, 1872, *Asopina*.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.

Distant, Biol. Centr. Am., Heter., i, p. 26, 1880.

Puton, Cat. Hémip. Palae., Edn. 3, p. 14, 1886, Tribe *Asopini*.

Uhler, Check List, p. 3, 1886, *Asopina*.

Distant, Fauna Br. Ind., Rhyn., i, pp. 2, 243, 1902.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904, *Asopidae*.

Oshanin, Verz. Palae. Hemip., i, p. 151, 1906, *Asopina*.

Schouteden, Genera Ins., Fasc. 52, p. 2, 1907.

Schumacher, Zeit. f. Wissen. Insek., vi, p. 263, 1910. (Biology.)

Oshanin, Kat. Palae. Hemip., p. 18, 1912.

- Zimmer, Univ. Neb. Studies, xi, pp. 220, 234, 1912.
Arminae, Bergr., Rev. Russe Ent., iv, p. 32, 1904.
 Schouteden, Rhyn., Aethop., i, Fasc. 2, p. 133, 1905.
 Bergroth, Wien. Ent. Zeit., xxx, pt. 6-7, p. 129, 1911.
Amygotinae Schouteden, Genera Ins., Fasc. 52, p. 2, 1907.
Cimicinae Kirkaldy, Cat. Hemip., p. 3, 1909.

Genus **Stiretrus** Lap.

Logotype *decemguttatus* Lep. & Serv.

- Laport, Essai Classif. Syst. Hémipt., p. 75, 1832.
 Spinola, Essai sur les Hémipt., p. 356, 1837.
 Germar, Zeits. f. Ent., i, p. 10, 1839.
 Herrich-Schaeffer, Wanz. Ins., v, p. 23, 1839.
 Amyot and Serville, Hémipt., p. 75, 1843.
 Spinola, Tavola Sinot., p. 30, 1850.
 Dallas, List of Hemip., i, p. 78, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
 Stål, Enum. Hemip., i, p. 22, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 26, 1880.
 Schouteden, Genera Ins., Fasc. 52, p. 6, 1907. (Names *decemguttatus* type.)
 Kirkaldy, Cat. Hemip., i, p. 30, 1909. (Names *smaragdulus* pseudotype.)
Stiretrosoma Spinola, Essai sur les Hémipt., p. 356, 1837 (1840). (Logo-
 Amyot and Serville, Hémipt., p. 76, 1843. [type *crythrocephalus* Lep.])
 || *Stictionotus* Stål, Enum. Hemip., i, p. 22, 1870 (subgen.)
 Schouteden, Genera Ins., Fasc. 52, p. 7, 1907. (Names *rugosus* Logo-
Oncogaster Stål, Enum. Hemip., i, p. 24, 1870 (as subgenus). [type.])
 Schouteden, Genera Ins., Fasc. 52, pp. 7, 8, 1907. (Names *ceruleus*
 [Dall. type.])
 || *Stictocoris* Kirkaldy, Entomol., xxxvii, p. 279, 1904 (n.n. for *Stictionotus*
 Schouteden, Genera Ins., Fasc. 52, p. 7, 1907. [Stål.])
Stictionotion Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for
 [Stictocoris Kirk.])
Stiretroides Schouteden, Genera Ins., Fasc. 52, pp. 7, 9, 1907 (as subgen.
 [with type *loratus*.])
 Kirkaldy, Cat. Hemip., i, p. 30, 1909. (Names *latipes* pseudotype.)

207. **Stiretrus anchorago** (Fabr.)

- Fabricius, Spec. Ins., ii, p. 341, 1781, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2132, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 86, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 137, 1803, *Tetyra*.
 Dallas, List of Hemip., i, p. 80, 1851.
 Stål, Enum. Hemip., i, p. 24, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 8, 1907.
pulexellus (Westwood), Hope Cat., p. 42, 1837, *Pentatoma*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
inflata Schumacher, Sitz. Ges. Nat.-for. Freunde for 1912, p. 96 (as subsp.).

a. var. **fimbriatus** (Say)

Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 93, pl. 43, *Tetyra*.
 Germar, Zeit. f. Ent., i, p. 16, 1839.

Herrich-Schaeffer, Wanz. Ins., p. 193, 1853.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 369, 1878.

Smith, Cat. Ins. N. J., Edn. 3, p. 137, fig. 59, 1910.

variegatus (Herrich-Schaeffer), Wanz. Ins., iv, p. 90, fig. 427, 1839.

†*anchorago* Schouteden, Genera Ins., Fasc. 52, pl. 1, fig. 3, 1907. [*Asopus*.

b. var. **diana** (Fabr.)

Fabricius, Syst. Rhyng., p. 137, 1803, *Tetyra*.

Burmeister, Handb. d. Ent., ii, p. 381, 1835, *Asopus*.

Germar, Zeit. f. Ent., i, p. 19, 1839.

Herrich-Schaeffer, Wanz. Ins., v, p. 3, fig. 454, 1839.

‖*anchorago* (Westwood), Hope Cat., i, p. 42, 1837, *Pentatoma*.

ornatus Dallas, List of Hemip., i, p. 80, 1851.

anchorago var. Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 15, 1880.

c. var. **personatus** Germ.

Germar, Zeit. f. Ent., i, p. 16, 1839.

Stål, Stet. Ent. Zeit., xxiii, p. 85, 1862.

Stål, Enum. Hemip., i, p. 25, 1870.

d. var. **violaceus** (Say)

Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra*.

Germar, Zeit. f. Ent., i, p. 12, 1839.

Amyot and Serville, Hémip., p. 76, pl. 1, fig. 1, 1843.

Dallas, List of Hemip., i, p. 79, 1851.

Stål, Enum. Hemip., i, p. 25, 1870.

Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 14, 1880.

Localities: Mass., Conn., N. Y., N. J., Pa., Md., N. C., Va., Ga.,
 Fla., La., Kan., N. Mex., Texas.

Genus **Heterosceloides** Schoutd.

Orthotype *lepida* (Stål)

Schouteden, Genera Ins., Fasc. 52, p. 19, 1907.

208. **Heterosceloides lepida** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862, *Phyllochirus*.

Distant, Biol. Centr. Am., Heter., i, p. 33, pl. 3, fig. 21, 1880, *Heteroscelis*.

Schouteden, Genera Ins., Fasc. 52, p. 20, pl. 1, fig. 6, 1907.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914, *Heteroscelis*.

scutellaris (Walker), Cat. Heter., iii, p. 529, 1868, *Bodetria*.

Localities: Texas. (Neotropical.)

Genus **Alcaeorrhynchus** Bergr.

Haplotype *grandis* (Dall.)

Bergroth, Revue d'Ent., x, p. 235, 1891 (n.n. for *Mutycia* Stål).

Schouteden, Genera Ins., Fasc. 52, p. 32, 1907. (Names *grandis* type.)

‖*Mutycia* Stål, Rio Jan. Hemip., ii, p. 58, 1858.

Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.

Stål, Enum. Hemip., i, p. 48, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 35, 1880.

209. *Alcaeorrhynchus phymatophora* (P. B.)

- Palisot-Beauvois, Ins. Rec. Af. Am., p. 112, pl. Hémip. 8, fig. 2, 1805, *Pentatoma*.
 Amyot and Serville, Hémip., p. 82, 1843, *Canthecona*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 32, 1853, *Canthecona*.
 Guérin in Sagra, Hist. de Cuba, Ins., p. 364, 1857, *Canthecoma*.
 Stål, Enum. Hemip., i, p. 48, 1870, *Mutya*.
 Berg, Hemip. Argent., p. 33, 1879, *Mutya*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904, *Mutya*.
 Schouteden, Genera Ins., Fasc. 52, p. 32, 1907.
 Localities: Fla. (Neotropical.)

210. *Alcaeorrhynchus grandis* (Dall.)

- Dallas, List of Hemip., i, p. 91, 1851, *Canthecona*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 31, 1853, *Canthecona*.
 Stål, Rio Jan. Hemip., ii, p. 58, 1858, *Mutya*.
 Stål, Stet. Ent. Zeit., xxiii, p. 90, 1862, *Mutya*.
 Distant, Biol. Centr. Am., Heter., i, p. 36, 1880, *Mutya*.
 Berg, Hemip. Argent., p. 180, 1884, *Mutya*.
 †*phymatophora* (Stål), Enum. Hemip., i, p. 48, 1870, *Mutya* (part).
 Berg, Hemip. Argent., p. 33, 1879, *Mutya* (part).
 Localities: Fla. (Neotropical.)

Genus *Oplomus* Spin.Logotype *tripustulatus* Fabr.

- Spinola, Essai sur les Hémip., p. 355, 1837 (1840).
 Spinola, Tavola Sinot., p. 30, 1850.
 Dallas, List of Hemip., i, p. 82, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
 Stål, Enum. Hemip., i, p. 26, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 29, 1880.
 Schouteden, Genera Ins., Fasc. 52, p. 32, 1907. (Names *tripustulatus* type.)
 †*Catostyrax* Amyot and Serville, Hémip., p. 82, 1843. (Haplotype *catena*.)
 †*Hoplomus* Gistel, Naturges des Thierr., p. x, 1848. [Drury.]

Subgenus *Polypoecilus* StålHaplotype *dichrous* (H. S.)

- Stål, Enum. Hemip., i, p. 26, 1870.
 Schouteden, Genera Ins., Fasc. 52, pp. 33, 34, 1907. (Names *dichrous* type.)

211. *Oplomus dichrous* (H. S.)

- Herrich-Schaeffer, Wanz. Ins., iv, p. 89, fig. 426, 1839, *Asopus*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 167, 1853, *Platynopus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 86, 1862.
 Stål, Enum. Hemip., i, p. 26, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 29, pl. I, fig. 16, 1880.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 64, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 34, 1907.
 var. *a*, *b*, Stål, Enum. Hemip., i, p. 26, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 29, 1880.
a. var. *rubropictus* Voll.
 Vollenhoven, Tijdschr. v. Ent., vi, p. 121, 1863.

Walker, Cat. Heter., iii, p. 529, 1868.

var. *c, d*, Stål, Enum. Hemip., i, p. 26, 1870.

Distant, Biol. Centr. Am., Heter., i, pp. 29, 30, 1880.

b. var. rhodomelas (H. S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 90, fig. 428, 1839, *Asopus*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 168, 1853, *Platynopus*.

vars. *e-g*, Stål, Enum. Hemip., i, pp. 26, 27, 1880.

vars. *e-h*, Distant, Biol. Centr. Am., Heter., i, p. 30, pl. 1, fig. 16, 1880.

Localities: Ariz., Pa. (accidental). (Neotropical.)

Subgenus **Oplomus** Spin.

Stål, Enum. Hemip., i, p. 27, 1870.

[type.]

Schouteden, Genera Ins., Fasc. 52, pp. 34, 35, 1907. (Names *tripustulatus*

212. **Oplomus tripustulatus** (Fabr.)

Fabricius, Syst. Rhyng., p. 172, 1803, *Cimer*.

Spinola, Essai sur les Hémipt., p. 355, 1837 (1840).

Dallas, List of Hemip., i, p. 86, 1851.

Stål, Hemip. Fabr., i, p. 15, 1868.

Stål, Enum. Hemip., i, p. 28, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 30, 1880.

var. *a*, Stål, Enum. Hemip., i, p. 28, 1870.

a. var. flavoguttatus Voll.

Vollenhoven, Tijdschr. v. Ent., vi, p. 123, 1863.

basalis Walker, Cat. Heter., i, p. 122, 1867.

var. *b*, Stål, Enum. Hemip., i, p. 28, 1870.

b. var. chrysomelas Walk.

Walker, Cat. Heter., i, p. 121, 1867.

var. *c, d*, Stål, Enum. Hemip., i, p. 28, 1870.

c. var. e-g, Stål

Stål, Enum. Hemip., i, p. 28, 1870.

d. var. salamandra (Burm.)

Burmeister, Handb. d. Ent., ii, p. 381, 1835, *Asopus*.

Dallas, List of Hemip., i, p. 84, 1851.

Walker, Cat. Heter., i, p. 120, 1867.

Distant, Biol. Centr. Am., Heter., i, pl. 4, fig. 16, 1880.

var. *h, i*, Stål, Enum. Hemip., i, pp. 28, 29, 1870.

e. var. tibialis (Fabr.)

Fabricius, Syst. Rhyng., p. 176, 1803, *Cimer*.

Stål, Hemip. Fabr., i, p. 16, 1868.

—— Stoll, Punais., p. 88, fig. 206, 1792 (without name).

var. *h*, Stål, Enum. Hemip., i, p. 29, 1870.

var. *l, m*, Stål, Enum. Hemip., i, p. 29, 1870.

f. var. violaceus Dall.

Dallas, List of Hemip., i, p. 85, 1851.

Localities: Fla. (typical form). (Neotropical.)

213. **Oplomus mundus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 87, 1862.

Stål, Enum. Hemip., i, p. 30, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 32, pl. 4, fig. 17, 1880.

Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.

Schouteden, Genera Ins., Fasc. 52, p. 35, 1907.

Localities: Texas. (Neotropical.)

Genus **Perillus** Stål

Logotype *confluens* H. S.

Stål, Stet. Ent. Zeit., xxiii, p. 88, 1862 (subgen. of *Oplomus*).

Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.

Stål, Enum. Hemip., i, p. 31, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 33, 1880.

Provancher, Pet. Faune Ent. Can., iii, p. 32, 1885.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 64, 1904. (Key.)

Schouteden, Genera Ins., Fasc. 52, pp. 11, 36, 1907. (Names *confluens* type.)

Van Duzee, Can. Ent., xli, p. 370, 1909.

Perilloides Schouteden, Genera Ins., Fasc. 52, pp. 11, 37, 1907. (Ortho

Kirkaldy, Cat. Hemip., i, p. 6, 1909. [type *bioculatus* Fabr.]

Zimmer, Univ. Neb. Studies, xi, p. 234, 1912.

214. **Perillus confluens** (H. S.)

Herrich-Schaeffer, Wanz. Ins., v, p. 77, fig. 552, 1839, *Asopus*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 168, 1853, *Podisus*.

Stål, Stet. Ent. Zeit., xxiii, p. 88, 1862.

Walker, Cat. Heter., i, p. 120, 1867, *Oplomus*.

Stål, Enum. Hemip., i, p. 32, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 33, pl. 1, fig. 18, 1880.

Cockereil, Trans. Am. Ent. Soc., xx, p. 361, 1893.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 65, 1904.

Schouteden, Genera Ins., Fasc. 52, p. 37, 1907.

Localities: Colo., Texas, N. Mex., Ariz. (Neotropical.)

215. **Perillus splendidus** (Uhler)

Uhler, Proc. Ent. Soc., Phila., i, p. 22, 1861, *Zicrona*.

Stål, Enum. Hemip., i, p. 32, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 121, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 66, 1904.

Schouteden, Genera Ins., Fasc. 52, p. 39, 1907.

Localities: Colo.(?), Texas, Calif. (Mexico.)

216. **Perillus bioculatus** (Fabr.)

Fabricius, Syst. Ent., p. 715, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 248, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 358, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 295, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2157, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 120, 1794, *Cimex*.

- Fabricius, Syst. Rhyng., p. 175, 1803, *Cimex*.
 Stål, Enum. Hemip., ii, p. 129, 1872.
 Lethierry and Severin, Cat. Génl. Hémip., i, p. 206, 1893.
 Gillette and Baker, Hemip. Colo., p. 12, 1895, *Mincus*.
 Smith, Cat. Ins. N. J., Edn. 2, p. 117, 1900, *Mincus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 66, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 37, 1907, *Perilloides*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides*.
 Zimmer, Univ. Neb. Studies, xi, p. 234, 1912, *Perilloides*.

a. var. clanda (Say)

- Say, Jl. Acad. Nat. Sci. Phil., iv, p. 312, 1825; Compl. Writ., ii, p. 240, *Pentatoma claudus* Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872. [*toma*.]
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iii, p. 398, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 504, 1878.
 Uhler, Check List, p. 4, 1886.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
 Gillette and Baker, Hemip. Colo., p. 12, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 67, 1904.
 Localities: Ont., N. Y., N. J., Ia., Neb., Kan., Dak., Wyo., Colo.,
 Utah, Nev., Mont., N. Mex., Ariz., Calif., Oregon, Idaho.

217. *Perillus circumcinctus* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 89, 1862.
 Stål, Enum. Hemip., i, p. 32, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 34, pl. 6, fig. 6, 1880.
 Provancher, Pet. Faune Ent. Can., iii, p. 32, 1885.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 67, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 37, 1907, *Perilloides*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides*.
 Zimmer, Univ. Neb. Studies, xi, p. 235, 1912, *Perilloides*.
marginatus Provancher, Nat. Can., iv, p. 74, 1872.
 Localities: Ont., N. H., Mass., N. Y., N. J., Ill., Mo., Neb., Dak.

218. *Perillus exaptus* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 313, 1825; Compl. Writ., ii, p. 240,
 Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Zicrona*. [*Pentatoma*.]
 Stål, Enum. Hemip., i, p. 32, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iv, p. 504, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 369, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 33, 1885.
 Gillette and Baker, Hemip. Colo., p. 12, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 107, 1903; xxx, p. 65, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 38, pl. 3, fig. 2, 1907, *Perilloides*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides*.

Zimmer, Univ. Neb. Studies, xi, p. 234, 1912, *Perilloides*.

variegata (Kirby), in Richardson, Fauna Bor. Am., iv, p. 267, 1837, *Penta-*

Kirby in Bethune's reprint, p. 135, *Pentatoma*. [toma.

marginella (Dallas), List of Hemip., i, p. 109, 1851, *Zicrona*.

Localities: Quebec, Ont., Mass., N. Y., N. J., Ill., Mo., Dak., Wyo.,

Colo., N. Mex., Mont., Utah, Manitoba, Wash.

Genus **Rhacognathus** Fieb.

Haplotype *punctatus* (Linn.)

Fieber, Europ. Hemip., pp. 81, 347, 1861.

Stål, Of. Vet. Akad. Förh., xxiv, p. 498, 1867; xxix, No. 3, p. 40, 1872.

Provancher, Pet. Faune Ent. Can., iii, p. 33, 1885.

Schouteden, Genera Ins., Fasc. 52, p. 54, 1907.

219. **Rhacognathus americanus** Stål

Stål, Enum. Hemip., i, p. 33, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.

Provancher, Pet. Faune Ent. Can., iii, p. 34, 1885.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.

Schouteden, Genera Ins., Fasc. 52, p. 55, 1907.

Localities: Ohio, Ill., Manitoba.

Genus **Euthyrhynchus** Dall.

Haplotype *floridanus* (Linn.)

Dallas, List of Hemip., i, pp. 77, 104, 1851.

Dohrn, Cat. Hemip., p. 8, 1859 (spelled *Eutyrrhynchus*).

Stål, Enum. Hemip., i, p. 54, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 41, 1880.

Schouteden, Genera Ins., Fasc. 52, p. 55, 1907.

220. **Euthyrhynchus floridanus** (Linn.)

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 719, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 702, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 192, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 346, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 284, 1787, *Cimex*.

Gmelin, in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2136, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 96, 1794, *Cimex*.

Fabricius, Syst. Rhyng., p. 158, 1803, *Cimex*.

Burmeister, Handb. d. Ent., ii, p. 380, 1835, *Asopus*.

Herrich-Schaeffer, Wanz. Ins., iv, p. 102, fig. 450, 1839, *Asopus*.

Blanchard, Hist. des Ins., Hemip., p. 154, 1840, *Stiretrus*.

Amyot and Serville, Hémip., p. 84, 1843, *Asopus*.

Dallas, List of Hemip., i, p. 104, 1851.

Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862.

Stål, Enum. Hemip., i, p. 54, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 41, pl. 1, fig. 21, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904.

Schouteden, Genera Ins., Fasc. 52, p. 56, pl. 4, fig. 2, 1907.

Bueno and Brimley, Ent. News, xviii, p. 443, 1907.

puniceus (Linnaeus), Syst. Nat., Edn. 12, i, pt. 2, p. 719, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 703, 1775, *Cimex*.

Schouteden, Genera Ins., Fasc. 52, p. 70, pl. 5, fig. 7, 1907.

Van Duzee, Can. Ent., xli, p. 371, 1909.

halys Dallas, List of Hemip., i, p. 105, pl. 2, fig. 2, 1851.

Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 498, 1867.

Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 19, 1880.

punctipennis (Herrich-Schaeffer), Wanz. Ins., ix, p. 338, 1853, *Podisus*.

Localities: Fla., Texas. (Neotropical.)

223. *Apateticus marginiventris* (Stål)

Stål, Enum. Hemip., i, p. 49, 1870, *Podisus*.

Distant, Biol. Centr. Am., Heter., i, p. 37, pl. 4, fig. 24, 1880, *Podisus*.

Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 36, 1909, *Podisus*.

Van Duzee, Can. Ent., xli, p. 371, 1909.

Zimmer, Univ. Neb. Studies, xi, p. 236, 1912.

gillettei (Uhler), Hemip. Colo., p. 12, 1895, *Podisus*.

Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 418, pl. 1, fig. 6, 1897,

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 69, 1904, *Podisus*. [*Podisus*.

Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.

Localities: Neb., Colo., Ariz. (Mexico.)

Subgenus *Apoecilus* Stål

Haplotype *grandis* (Dall.) = *cynicus* (Say)

Stål, Enum. Hemip., i, p. 49, 1870.

Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.

Van Duzee, Can. Ent., xli, p. 371, 1909.

224. *Apateticus cynicus* (Say)

Say, Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 757; Compl. Writ., i, p. [312, *Pentatoma*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876; iv, p. 504, 1878.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878, *Podisus*.

Uhler, Stand. Nat. Hist., ii, p. 291, 1884, *Podisus*.

Provancher, Pet. Faune Ent. Can., iii, p. 29, 1885, *Podisus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Podisus*.

Gillette and Baker, Hemip. Colo., p. 12, 1895, *Podisus*.

Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 425, pl. 1, fig. 7, 1897, *Podisus*.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1904, *Podisus*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Podisus*.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 9, 1904, *Podisus*.

Schouteden, Genera Ins., Fasc. 52, p. 71, pl. 5, fig. 8, 1907.

Zimmer, Univ. Neb. Studies, xi, p. 237, 1912.

grandis (Dallas), List of Hemip., i, p. 96, 1851, *Arma*.

Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 335, 1856, *Arma*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867, *Podisus*.

Stål, Enum. Hemip., i, p. 49, 1870.

Lethierry and Severin, Cat. Génl. Hémipt., i, p. 218, 1893, *Podisus*.

Localities: Quebec, Ont., Mass., N. Y., Pa., Md., Ill., Mo., Dak.,

Neb., Kan., Wise., Colo., Texas, Ariz.

225. *Apateticus bracteatus* (Fitch)

- Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 336, 1856, *Arma*.
 Gillette and Baker, Hemip. Colo., p. 12, 1895, *Podisus*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Podisus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1904, *Podisus*.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 10, 1904, *Podisus*.
 Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 225, 1908.
 Kirkaldy, Cat. Hemip., i, p. 22, 1909.
 Zimmer, Univ. Neb. Studies, xi, p. 237, 1912.

Localities: Quebec, Mass., N. Y., Neb., Idaho, Vanc. Isd.

226. *Apateticus crocatus* (Uhl.)

- Uhler, Trans. Md. Acad. Sci., i, p. 384, 1897, *Podisus*.
 Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 422, 1897, *Podisus*.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1907, *Podisus*.
 Schouteden, Genera Ins., Fasc. 52, p. 70, 1907. [var. of *cynicus*.]
 [obscuripes Uhl MS] Riley, Rept. U. S. Dept. Agr. for 1878, p. 245. (As
 [crocatus Uhl. MS] Hagen, Can. Ent., xvi, p. 40, 1884, *Podiscus*.)

Localities: Manitoba, Colo., Utah, Ariz., Calif., Oregon, Wash.,
 Vanc. Isd.

Genus *Podisus* H. S.

Logotype *vittipennis* H. S. = *bifidus* Lap.

- Herrich-Schaeffer, Wanz. Ins., ix, pp. 296, 337, 1853.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
 Stål, Enum. Hemip., i, p. 48, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 36, 1880.
 Provancher, Pet. Faune Can., iii, p. 29, 1885.
 Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 412, 1897.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.
 Kirkaldy, Entomol., xli, p. 124, 1908. (Names *vittipennis* type.)
 Van Duzee, Can. Ent., xli, p. 370, 1909.
 Kirkaldy, Cat. Hemip., i, p. 18, 1909 (subgen. of *Apateticus*).
 Bergroth, Wien. Ent. Zeit., xxx, pt. 6-7, p. 129, 1911.

Subgenus *Podisus* H. S.

- Van Duzee, Can. Ent., xli, p. 371, 1909.
Telepta Stål, Rio Jan. Hemip., i, p. 10, 1860. (Logotype *distinctus* Stål.)
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867. [type.]
 Kirkaldy, Cat. Hemip., i, p. 18, 1909. (Names *crassimargo* pseudo-
Eupodisus Schouteden, Genera Ins., Fasc. 52, pp. 70, 71, 1907. (Orthotype
 [modestus Dall.]

227. *Podisus maculiventris* (Say)

- Say, Ins. of La., p. 11, 1832, *Pentatoma*; reprint in *Psyche*, viii, p. 307, 1899.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
 Morrill, U. S. Dept. Agr., Div. Ent., Bul. 60, pp. 155-161, 1906.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
 Kirkaldy, Cat. Hemip., i, p. 19, 1909.

- Olsen, Jl. N. Y. Ent. Soc., xviii, p. 40, 1910.
 Zimmer, Univ. Neb. Studies, xi, p. 237, 1912, *Apateticus*.
spinosa (Dallas), List of Hemip., i, p. 98, 1851, *Arma*.
 Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 336, 1856, *Arma*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
 Stål, Enum. Hemip., i, p. 51, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876; iii, p. 399, 1877.
 Provancher, Pet. Faune Ent. Can., iii, p. 31, 1885.
 Van Duzee, Can. Ent., xxi, p. 2, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Gillette and Baker, Hemip. Colo., p. 13, 1895.
 Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 431, pl. 1, fig. 4, 1897.
pallens (Stål), Freg. Eugen. Resa, Ins., p. 222, 1859, *Arma*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
 Stål, Enum. Hemip., i, p. 51, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
 Kirkland, Mass. St. Bd. Agric. Rept., xlv, p. 421, 1897.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus*.
 Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 124, 1912, *Apateticus*.
 Localities: Quebec, Ont., Vt., Mass., N. Y., Pa., Md., N. C., Ga.,
 Fla., Ohio, Wisc., Neb., Kan., Okl., Texas, Manitoba, Mont.,
 Colo., Ariz., Calif., Vanc. Isd.

227½. *Podisus fretus* Olsen

- Olsen, Bul. Brookl. Ent. Soc., xi, p. 82, 1916.
 Localities: Mass., N. Y., N. J., N. C.

228. *Podisus serieventris* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 94, 1871; xix, p. 370, 1878.
 Gillette and Baker, Hemip. Colo., p. 13, 1895.
 ?Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 429, pl. 1, fig. 2, 1897. (Not well
 [distinguished from *maculiventris*].)
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
 Van Duzee, 20th Rept. N. Y., St. Ent., p. 548, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 406, 1906.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus*.
 Van Duzee, Can. Ent., xlv, p. 318, 1912.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
 Minn., Colo., Mont., Vanc. Isd.

229. *Podisus modestus* (Dall.)

- Dallas, List of Hemip., i, p. 101, 1851, *Arma*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 17, 1853, *Arma*.
 Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 390, 1856, *Arma*.
 Stål, Enum. Hemip., i, p. 51, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876; iii, p. 399, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 38, pl. 4, fig. 4, 1880.

- Provancher, Pet. Faune Ent. Can., iii, p. 30, 1885.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
 Gillette and Baker, Hemip. Colo., p. 13, 1895.
 Kirkland, Mass. St. Bd. Agr., Rept. xiv, p. 419, pl. 1, fig. 9, 1897.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus*.
 Zimmer, Univ. Neb. Studies, xi, p. 237, 1912, *Apateticus*.
?aggressor (Walker), Cat. Heter., ii, p. 359, 1867, *Rhaphigaster*.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Ga., Ohio, Ill.,
 Dak., Neb., Colo., Mont.

230. *Podisus placidus* Uhl.

- Uhler, Am. Ent., ii, p. 203, 1870.
 Gillette and Baker, Hemip. Colo., p. 13, 1895.
 Uhler, Can. Ent., xxix, p. 116, 1897.
 Van Duzee, Can. Ent., xxix, p. 160, 1897.
 Kirkland, Mass. St. Bd. Agr., Rept. xiv, p. 416, 1897.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1907.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
 Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910, *Apateticus*.
 Olsen, Jl. N. Y. Ent. Soc., xx, p. 57, 1912.
 Zimmer, Univ. Neb. Studies, xi, p. 238, 1912, *Apateticus*.
 Localities: Quebec, Ont., Mass., N. Y., N. J., Mich., Ia., Neb.,
 Colo.

231. *Podisus sagitta* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 99, 1794, *Cimex*.
 Fabricius, Syst. Rhyng., p. 161, 1803, *Cimex*.
 Stål, Enum. Hemip., i, p. 50, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 37, pl. 1, fig. 22, 1880.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 172.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
didymus (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 128, pl. Hémip. 9, fig.
 Amyot and Serville, Hémip., p. 85, 1843, *Arma*. [2, 1805, *Pentatoma*.
 Dallas, List of Hemip., i, p. 102, 1851, *Arma*.
 Stål, Stet. Ent. Zeit., xxiii, p. 90, 1865, *Telepta*.
 Walker, Cat. Heter., i, p. 135, 1867, *Arma*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
monospilus (Walker), Cat. Heter., i, p. 136, 1867, *Arma*.
 Localities: Texas. (Neotropical.)

232. *Podisus fuscescens* (Dall.)

- Dallas, List of Hemip., i, p. 102, 1851, *Arma*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
 Stål, Enum. Hemip., i, p. 50, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 38, pl. 4, fig. 20, 1880.
 Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.
 Schouteden, Genera Ins., Fasc. 52, p. 71, 1907.
fuscescens (Stål), Stet. Ent. Zeit., xxiii, p. 90, 1862, *Telepta*.
 Localities: Texas. (Mexico.)

233. *Podisus mucronatus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 386, 1897.

Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 437, pl. 1, fig. 9, 1897.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.

Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.

Localities: Fla. (Neotropical.)

Subgenus *Tylospilus* Stål

Logotype *chilensis* Spin.

Stål, Enum. Hemip., i, p. 52, 1870.

Schouteden, Genera Ins., Fasc. 52, pp. 70, 73, 1907. (Names *chilensis* type.)

Van Duzee, Can. Ent., xli, p. 371, 1909.

234. *Podisus acutissimus* Stål.

Stål, Enum. Hemip., i, p. 53, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876, *Tylospilus*.

Distant, Biol. Centr. Am., Heter., i, p. 40, pl. 2, fig. 22, 1880.

Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 435, 1897.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.

Localities: Colo., Texas, Ariz. (Mexico.)

Genus *Zicrona* Am. & Serv.

Haplotype *caerulea* (Linn.)

Amyot and Serville, Hémip., p. 86, 1843.

Dallas, List of Hemip., i, p. 107, 1851.

Fieber, Europ. Hemip., pp. 81, 346, 1861.

Douglas and Scott, Br. Hemip., p. 88, 1865.

Mulsant and Rey, Punaïs. de Fr., Pent., p. 360, 1866.

Stål, Of. Vet. Akad. Forh., xxiv, p. 499, 1867.

Stål, Enum. Hemip., i, p. 36, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 40, 1872.

Schouteden, Genera Ins., Fasc. 52, p. 74, 1907.

235. *Zicrona caerulea* (Linn.)

Linnaeus, Syst. Nat., Edn. 10, i, p. 445, 1758, *Cimex*.

Linnaeus, Fauna Suce., Edn. 2, p. 250, No. 933, 1761, *Cimex*.

Geoffroy, Hist. des Ins., i, p. 472, No. 75, 1762, *Cimex* (not binominal).

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 722, 1767, *Cimex*.

De Geer, Mémoires, iii, p. 268, 1773, *Cimex*.

Fabricius, Syst. Ent., p. 716, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 201, 1778, *Cimex*.

Schrank, Enum. Ins. Aust., p. 275, 1781, *Cimex*.

Fabricius, Spec. Ins., ii, p. 355, 1781, *Cimex*.

Fourcroy, Ent. Paris., p. 218, 1785, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 296, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2154, 1788, *Cimex*.

- Fabricius, Ent. Syst., iv, p. 123, 1794, *Cimex*.
 Wolff, Icon. Cimic., i, p. 18, fig. 18, 1800, *Cimex*.
 Wallekenae, Faune Paris., ii, p. 345, 1802, *Cimex*.
 Fabricius, Syst. Rhyng., p. 178, 1803, *Cimex*.
 Fallén, Monog. Cimic. Suec., p. 50, 1807, *Cimex*.
 Tigny, Hist. Nat. Ins., Edn. 2, iv, p. 299, 1813, *Pentatoma*.
 Curtis, Br. Ent., i, pl. 20, 1824, *Pentatoma*.
 Fallén, Hemip. Suec., Cimic., p. 32, 1829, *Cimex*.
 Hahn, Wanz. Ins., ii, p. 65, fig. 154, 1834, *Pentatoma*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 56, 1835, *Pentatoma*.
 Burmeister, Handb. d. Ent., ii, p. 378, 1835, *Asopus*.
 Spinola, Essai sur les Hémip., p. 323, 1837 (1840), *Cimex*.
 Blanchard, Hist. des Ins., Hémip., p. 154, 1840, *Stiretrus*.
 Amyot and Serville, Hémip., p. 86, 1843.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 112, 1844, *Asopus*.
 Kolenati, Melet. Ent., iv, p. 37, 1846, *Asopus*.
 Dallas, List of Hemip., i, p. 108, 1851.
 Gorski, Anal. Ent., i, p. 114, 1852, *Asopus*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 17, 1853, *Arma*.
 Flor, Rhyng., Livl., i, p. 90, 1860, *Asopus*.
 Fieber, Europ. Hemip., p. 346, 1861.
 Douglas and Scott, Br. Hemip., p. 88, pl. 3, fig. 3, 1865.
 Mulsant and Rey, Punais. de Fr., Pent., p. 360, 1866.
 Stål, Enum. Hemip., i, p. 36, 1870.
 Reuter, Rev. Synon., p. 151, No. 80, 1888.
 Saunders, Hemip. Heter. Br. Isds., p. 36, pl. 3, fig. 10, 1892.
 Distant, Fauna Br. Ind., Rhyng., i, p. 255, fig. 163, 1902.
 Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.
 Schouteden, Genera Ins., Fasc. 52, p. 74, 1907. [history.]
 Kershaw and Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xix, p. 333, 1909 (life history.)
 Schumacher, Zeit. f. Wissen. Insk., vii, p. 44, 1911(?) (life history.)
concinna (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma*.
violacea (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma*.
illustris Amyot and Serville, Hémip., p. 87, 1843.
cuprea Dallas, List of Hemip., i, p. 108, 1851.
 Stål, Enum. Hemip., i, p. 37, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
 Gillette and Baker, Hemip. Colo., p. 12, 1895.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, 177, 1906.
 Localities: Ont., N. H., Colo., Utah, Idaho, N. Mex., Ariz., Calif.,
 Br. Col.

Superfamily COREOIDEAE Reut.

- Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 38, 49, 1912.
 Oshanin, Kat. Palae. Hemip., p. 20, 1912.

Family COREIDAE (Leach)

- Leach, Brewster's Edinbg. Enyc., ix, p. 121, 1815, *Coreides*.
 Stephens, Cat. Br. Ins., ii, p. 340, 1829, *Coreidae*.
 Laporte, Essai Classif. Syst. Hémip., p. 41, 1832, *Coreites*.
 Leach, Brewster's Edinbg. Enyc., Am. Edn., viii, p. 710, 1832, Tribe *Coreides*.
 Herrich-Schaeffer, Nom. Ent., i, p. 35, 1835, *Coreides*.
 Burmeister, Handb. d. Ent., ii, p. 299, 1835, *Coreodes*.
 Brullé, Hist. des Ins., ix, p. 348, 1835, *Coriens*.
 Spinola, Essai sur les Hémip., p. 122, 1837, *Coreites*.
 Costa, Cimic. Neap., Cent. i, p. 25, 1838, *Coreini*.
 Blanchard, Hist. des Ins., Hémip., p. 115, 1840, *Coreites*.
 Westwood, Intr. Mod. Classif. Ins., p. 482; Synop., p. 123, 1840, *Coreidae*.
 Spinola, Tavola Sinot., pp. 26, 38, 1850, *Coreitae* (in part).
 Herrich-Schaeffer, Wanz. Ins., ix, p. 232, 1853, *Coreodes*.
 Flor, Rhyng., Livl., i, p. 164, 1860, *Coreodea*.
 Fieber, Europ. Hemip., pp. 26, 55, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 203, 1862, *Coreida*.
 Stål, Hemip. Afr., ii, p. 1, 1865, *Coreida*.
 Douglas and Scott, Br. Hemip., pp. 16, 109, 1865, Section *Coreina*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 534, 1867, *Coreida*.
 Stål, Enum. Hemip., i, p. 125, 1870, *Coreina*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872, *Coreidae*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876, *Coreidae*.
 Distant, Biol. Centr. Am., Heter., i, p. 103, 1881, *Coreidae*.
 Uhler, Check List, p. 9, 1886, *Coreidae*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 1, 1894, *Coreidae*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 331, 1902, *Coreidae*.
 Oshanin, Verz. Palae. Hemip., i, p. 177, 1906, *Coreidae*.
 Kirkaldy, Can. Ent., xlii, p. 63, 1910.
 Horvath, Ann. Mus. Nat. Hung., ix, p. 8, 1911, *Coreidae*.
 Supericornes Amyot and Serville, Hémip., pp. xxx, 183, 1843.
 Dorhn, Cat. Hemip., p. 23, 1859, *Supericornia*.
 Dallas, List of Hemip., ii, p. 369, 1851, Tribe *Supericornia*.
 †*Lygacidae* Kirkaldy, Entomol., xxxii, p. 220, 1899.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.
 Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 146, 1907.
 Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
 Kirkaldy, Can. Ent., xl, p. 360, 1908.

Subfamily MEROCORINAE (Stål)

- Stål, Enum. Hemip., i, p. 125, 1870, *Merocorina*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Merocorina*.
 Berg, Hemip. Argent., p. 63, 1889, *Merocorina*.
 Distant, Biol. Centr. Am., Heter., i, p. 103, 1881, *Merocorinae*.
 Uhler, Check List, p. 9, 1886, *Merocorina*.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913, *Merocorinae*.
 Meropachydida Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 536, 1867.

Genus **Merocoris** PertyLogotype *acridoides* Fabr. = *typhaeus* Fabr.

- Perty, Del. Anim. Artic., p. 170, 1830.
 Brullé, Hist. Nat. des Ins., ix, p. 357, 1835 (names *acridoides* type; valid?).
 Blanchard, Hist. des Ins., Hémip., p. 117, 1840.
 Amyot and Serville, Hémip., p. 243, 1843.
 Dallas, List Hemip., ii, p. 419, 1852.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 537, 1867.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868.
 Stål, Enum. Hemip., i, p. 129, 1870.
 Berg, Hemip. Argent., p. 281, 1884.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913.
Corynomerus Spinola, Essai sur les Hémip., p. 126, 1837 (1840). (Haplo-Spinola, Tavola Sinot., p. 40, 1850. [type *elevatus* Spin.])
Hebcecerus Kolenati, Melet. Ent., ii, p. 65, 1845.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 243, 272, 1853.
Corynocoris Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868. (Logo-Stål, Of. Vet. Akad. Forh., xxiv, p. 537, 1867. [type *typhaeus* Fabr.])
 Stål, Enum. Hemip., i, p. 129, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 106, 1881.
 Uhler, Check List Hemip., p. 10, 1886.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 4, 1894.
 Banks, Cat. Neare. Hemip., p. 81.
 Van Duzee, Check List Hemip., p. 10, 1916.

236. **Merocoris typhaeus** (Fabr.)

- Fabricius, Ent. Syst., Suppl., p. 537, 1798, *Lygaeus*.
 Dallas, List of Hemip., ii, p. 419, 1852, *Merocoris*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868.
 Stål, Enum. Hemip., i, p. 129, 1870.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 26, 1910.
 Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.
 Smith, Cat. Ins., N. J., Edn. 3, p. 145, 1910.
acridioides (Fabricius), Syst. Rhyng., p. 200, 1803, *Coreus*.
 Wolff, Icon. Cimic., v, p. 192, fig. 186, 1811, *Coreus*.
rugosus (Amyot and Serville), Hémip., p. 244, 1843, *Merocoris*.
a. var. distinctus (Dall.)
 Dallas, List of Hemip., ii, p. 419, 1852, *Merocoris*.
 Stål, Enum. Hemip., i, p. 130, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 400, 1872, *Merocoris*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 106, 1881.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
 Gillette and Baker, Hemip. Colo., p. 7, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
 Localities: Me., N. Y., N. J., Pa., Md., Va., N. C., Fla., Wisc., Ill., Mo., Kan., Okl., Colo., Utah, N. Mex., Texas, Ariz., Calif.

Subfamily **COREINAE** (Stål)

- Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 543, 1867, *Coreida*.
 Stål, Enum. Hemip., i, p. 157, 1870, *Coreina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 49, 50, 1872, *Coreina*.

Stål, Enum. Hemip., iii, pp. 33, 34, 1873, *Coreina*.

Distant, Biol. Centr. Am., Heter., i, p. 121, 1881, *Coreinae*.

Uhler, Check List, p. 11, 1886, *Coreinae*.

Oshanin, Kat. Palae. Hemip., p. 20, 1912, *Coreinae* (in part).

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 126, 1913, *Coreinae*.

TRIBE ACANTHOCEPHALINI (Stål)

Stål, Enum. Hemip., i, p. 149, 1870, *Acanthocephalina*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Acanthocephalina*.

Distant, Biol. Centr. Am., Heter., i, p. 117, 1881, *Acanthocephalinae*.

Uhler, Check List, p. 10, 1886, *Acanthocephalina*.

Lethierry and Severin, Cat. Génl. Hémi., ii, p. 30, 1894, *Acanthocephalidae*.

Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910, *Acanthocephalinae*.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913, Div. *Acanthocephalaria*.

Placoseclidida Stål, Of. Vet. Akad. Forh., xxiv, p. 535, 1867.

Genus *Acanthocephala* Lap.

Orthotype *compressipes* (Fabr.) = *latipes* (Drury)

Laporte, Essai Classif. Syst. Hémi., p. 29, 1832.

Stål, Enum. Hemip., i, p. 149, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 117, 1881.

Uhler, Check List, p. 10, 1886.

†*Diactor* Burmeister, Handb. d. Ent., ii, p. 233, 1835 (to replace *Acanthocephala* Lap.)

Metapodius Westwood, Hope Cat., ii, p. 4, 1842 (to replace *Acanthocephala* [Lap. and *Diactor* Burm.]

Stål, Of. Vet. Akad. Forh., xxiv, p. 541, 1867.

Walker, Cat. Heter., iv, p. 48, 1871.

‡*Metapodus* Amyot and Serville, Hémi., p. 192, 1843.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 126, 1853.

Subgenus *Acanthocephala* Lap.

Stål, Enum. Hemip., i, p. 149, 1871.

237. *Acanthocephala declivis* (Say)

Say, Ins. La., p. 10, 1832; Compl. Writ., i, p. 305, *Rhinuchus*.

Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 772, Compl. Writ., i, p.

Stål, Enum. Hemip., i, p. 150, 1870. [327, *Anisoseclis*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 118, pl. 11, fig. 19, 1881.

Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.

‡*alatus* (Burmeister), Handb. d. Ent., ii, p. 334, 1835, *Diactor*.

Stål, Enum. Hemip., i, p. 150, 1870.

‡*thoracicus* (Dallas), List of Hemip., ii, p. 428, 1852, *Metapodius*.

Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Metapodius*.

Localities: Ga., Fla., La., Texas, N. Mex., Ariz. (Neotropical.)

Subgenus *Metapodiessa* Kirk.

Logotype *femorata* (Fabr.)

Kirkaldy, Entomol., xxxv, p. 137, 1902 (n.n. for *Metapodius* Stål).

‡*Metapodius* Stål, Enum. Hemip., i, p. 150, 1870.

238. *Acanthocephala femorata* (Fabr.)

- Fabricius, Syst. Ent., p. 708, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 240, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 351, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 288, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2142, 1788, *Cimex*.
 Fabricius, Syst. Ent., iv, p. 137, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 205, 1803, *Lygaeus*.
 Wolff, Icon. Cimic., v, p. 195, fig. 189, 1811, *Lygaeus*.
 Dallas, List of Hemip., ii, p. 430, 1852, *Metapodius*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 126, 1853, *Metapodius*.
 Stål, Enum. Hemip., i, p. 150, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Metapodius*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878, *Metapodius*.
 Saunders, Ins. Inj. to Fruits, p. 220, fig. 225, 1883, *Metapodius*.
 Distant, Proc. Zool. Soc. Lond. for 1901, p. 329.
 Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
 nasulus (Say), Ins. La., p. 10, 1832; Compl. Writ., i, p. 305, *Rhinuchus*.
 Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 772; Compl. Writ.,
 Kirkaldy, Can. Ent., xli, p. 30, 1909. [i, p. 327, *Anisoscelis*.
 bispinus (Westwood), Hope Cat., ii, p. 15, 1842, *Metapodius*.
 obscurus (Westwood), Hope Cat., ii, p. 15, 1842, *Metapodius*.
 Localities: N. C., S. C., Ga., Fla., La., Okl., Texas.

239. *Acanthocephala granulosa* (Dall.)

- Dallas, List of Hemip., ii, p. 430, 1852, *Metapodius*.
 Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Metapodius*.
 Stål, Enum. Hemip., i, p. 151, 1870.
 Uhler, Wheeler's Surv. 100th Mer., v, p. 831, 1875, *Metapodius*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876, *Metapodius*.
 Distant, Biol. Centr. Am., Heter., i, p. 120, pl. 11, fig. 18, pl. 12, fig. 9, 1881.
 Distant, Biol. Centr. Am., Heter., i, p. 359, 1892.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894, *Metapodius*.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
 †*alatus* (Herrich-Schaeffer), Wanz. Ins., vi, p. 53, fig. 613, 1842, *Diactor*
 thomasi (Uhler), Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872,
 [*Metapodius*.
 Localities: Texas, Ariz., Calif.

240. *Acanthocephala confraterna* (Uhl.)

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 99, 1871, *Metapodius*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 382, 1878, *Metapodius*.
 Localities: Ga., Fla.

241. *Acanthocephala instabilis* (Uhl.)

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871; xix, p. 381, 1878,
 [*Metapodius*.
 Localities: Pa., N. C., Ga.

242. *Acanthocephala terminalis* (Dall.)

- Dallas, List of Hemip., ii, p. 431, 1852, *Metapodius*.
 Stål, Enum. Hemip., i, p. 151, 1870.

Uhler, Hayden's Surv. for 1871, p. 400, 1872, *Metapodius*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876, *Metapodius*.

Bueno and Brimley, Ent. News, xviii, p. 439, 1907.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.

Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.

†*femoratus* (Smith), Cat. Ins. N. J., Edn. 2, p. 122, 1900, *Metapodius*.

Localities: Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Ill., Mo.,
La., Okl., Texas, Colo.

TRIBE ANISOSCELINI (A. & S.)

Amyot and Serville, Hémip., pp. xxxiv, 217, 1843, *Anisoscelides*.

Dallas, List of Hemip., ii, p. 449, 1852, Fam. *Anisoscelidae* (part).

Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Anisoscelidae*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867, Div. *Anisoscelidida*.

Stål, Enum. Hemip., i, p. 157, 1870, *Anisoscelidina*.

Stål, Enum. Hemip., iii, p. 35, 1873, Div. *Anisoscelaria*.

Distant, Biol. Centr. Am., Heter., i, p. 121, 1881, Div. *Anisoscelaria*.

Uhler, Check List, p. 11, 1886, *Anisoscelaria*. [*Anisoscelidae*.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 44, 1894, Subfam.

Distant, Fauna Br. Ind., Rhyn., i, p. 381, 1902, Div. *Anisoscelaria*.

Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910, Subfam. *Anisoscelinae*.

Banks, Cat. Neare. Hemip., p. 77, 1912, *Anisoscelini*. [division.)

Holymeniaria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 142, 1913 (as

Genus **Chondrocera** Lap.

Orthotype *laticornis* Lap.

Laporte, Essai Classif. Syst. Hémip., p. 44, 1832.

Blanchard, Hist. des Ins., Hémip., p. 119, 1840 (as subgenus of *Coreus*).

Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.

Stål, Enum. Hemip., i, p. 158, 1870.

Petalotoma Guérin in Sagra Hist. de Cuba, Ins., p. 388, 1857.

243. **Chondrocera laticornis** Lap.

Laport, Essai Classif. Syst. Hémip., p. 45, pl. 53, fig. 7, 1832.

Blanchard, Hist. des Ins., Hemip., p. 119, 1840, *Coreus*.

Stål, Enum. Hemip., i, p. 158, 1870.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 12, 1907.

Banks, Cat. Neare. Hemip., p. 77, 1910. [1857, *Petalotoma*.

unicolor (Guérin) in Sagra, Hist. de Cuba, Ins., p. 389, pl. 13, fig. 8,

Localities: Fla. (West Indies.)

Genus **Leptoglossus** Guer.

Haplotype *dilaticollis* Guer.

Guérin, Voy. Coquil., Zool., ii, pt. 2, p. 174, 1838.

Stål, Enum. Hemip., i, p. 160, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 123, 1881.

Distant, Fauna Br. Ind., Rhyn., i, p. 382, 1902 (names *dilaticollis* type).

Kirkaldy, Entomol., xxxix, p. 257, 1906 (names *dilaticollis* type).

Heidemann, Proc. Ent. Soc. Wash., xii, p. 191, 1910.

†*Anisoscelis* Spinola, Essai sur les Hemip., p. 200, 1837 (1840).

Dallas, List of Hemip., ii, p. 452, 1852.

Theognis Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862. (Logotype scripta
Stål, Hemip. Afr., ii, pp. 8, 85, 1865. [Hahn.]

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 101, 1868.

Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.

244. *Leptoglossus phyllopus* (Linn.)

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 731, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 708, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 224, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 351, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 289, 1787, *Cimex*.

Fabricius, Ent. Syst., iv, p. 139, 1794, *Lygacus*.

Fabricius, Syst. Rhyng., p. 210, 1803, *Lygacus*.

Wolff, Icon. Cimic., v, p. 196, fig. 190, 1811, *Lygacus*.

Burmeister, Handb. d. Ent., ii, p. 332, 1835, *Anisoscelis*.

?Blanchard, Hist. des Ins., Hémip., p. 123, 1840, *Anisoscelis*.

Westwood, Hope Cat., ii, p. 16, 1842, *Anisoscelis*.

?Amyot and Serville, Hémip., p. 218, 1843, *Anisoscelis*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 103, 1868, *Theognis*.

Stål, Enum. Hemip., i, p. 161, 1870.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 400, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 124, 1881.

Distant, Proc. Zool. Soc. Lond. for 1901, p. 330.

Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.

Girault, Ent. News, xvii, p. 382, 1906 (feeding habits).

—— Stoll, Punaise, p. 30, fig. 54, 1792 (without name).

albicinctus (Say), Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 771;
[Compl. Writ., i, p. 326, *Anisoscelis*.

Stål, Hemip. Fabr., i, p. 52, 1868.

fraterna (Westwood), Hope Cat., ii, p. 16, 1842, *Anisoscelis*.

confusa (Dallas), List of Hemip., ii, p. 453, 1852, *Anisoscelis*.

Localities: N. Y., Va., N. C., Fla., Mo., Okl., La., Texas, Ariz.,
(Neotropical.)

245. *Leptoglossus zonatus* (Dall.)

Dallas, List of Hemip., ii, p. 452, 1852, *Anisoscelis*.

Stål, Stet. Ent. Zeit., xxiii, p. 295, 1862, *Theognis*.

Stål, Enum. Hemip., i, p. 162, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 125, pl. 12, fig. 16, 1881.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.

Cockerell, Ent. News, xvi, p. 18, 1905.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Localities: Ariz., Calif.

246. *Leptoglossus corculus* (Say)

Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 770; Compl. Writ., i, p.

Stål, Enum. Hemip., i, p. 165, 1870. [326, *Anisoscelis*.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.
 Gillette and Baker, Hemip. Colo., p. 17, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
 Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
 Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
excellens (Mayr), Verh. Zool.-Bot. Ges. Wien, xv, p. 434, 1865, *Theognis*.
 Localities: N. Y., N. J., Md., D. C., N. C., Ga., Fla., Tenn., Colo.,
 N. Mex., Ariz., Calif.

247. **Leptoglossus occidentalis** Heid.

- Heidemann, Proc. Ent. Soc. Wash., xii, p. 196, pl. 8, fig. 2, 1910.
 Localities: Colo., Idaho, Calif., Vanc. Isd.

248. **Leptoglossus oppositus** (Say)

- Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 771; Compl. Writ., i, p. Stål, Enum. Hemip., i, p. 163, 1870. [327, *Anisosecelis*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.
 Distant, Trans. Ent. Soc. Lond. for 1900, p. 691.
 Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
 Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
tibialis (Herrich-Schaeffer), Wanz. Ins., vii, p. 12, 1844, *Anisosecelis*.
 Walker, Cat. Heter., iv, p. 125, 1871, *Anisosecelis*.
 Localities: N. Y., N. J., Pa., Md., N. C., Ga., Ind., Ky., Okl.,
 Texas. (Mexico.)

249. **Leptoglossus fulvicornis** (Westw.)

- Westwood, Hope Cat., ii, p. 17, 1842, *Anisosecelis*.
 Stål, Enum. Hemip., i, p. 161, 1870.
 Distant, Proc. Ent. Soc. Lond. for 1901, p. 330, pl. 30, fig. 4.
magnoliae Heidemann, Proc. Ent. Soc. Wash., xii, p. 191, pl. 7, 1910; xiii,
 [p. 132, 1911 (egg).
 Localities: Mass., N. Y., D. C., N. C., Ga., Fla.

250. **Leptoglossus gonagra** (Fabr.)

- Fabricius, Syst. Ent., p. 708, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 241, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 352, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 289, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2143, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 140, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 210, 1803, *Lygaeus*.
 Burmeister, Handb. d. Ent., ii, p. 332, 1835, *Anisosecelis*.
 Westwood, Hope Cat., ii, p. 16, 1842, *Anisosecelis*.
 Dallas, List of Hemip., ii, p. 453, 1852, *Anisosecelis*.
 Guérin in Sagra, Hist. de Cuba, Ins., p. 387, 1857, *Anisosecelis*.
 Stål, Stet. Ent. Zeit., xxiii, p. 295, 1862, *Theognis*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 103, 1868, *Theognis gonager*.
 Stål, Hemip. Fabr., i, p. 51, 1868.

Stål, Enum. Hemip., i, p. 165, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 126, 1881.

Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 417, 1901.

Banks, Cat. Neare. Hemip., p. 78, 1910.

grallator (Herbst), Gem. Naturges., vi, p. 259, pl. 31B, fig. 2, 1784, *Cimex*.

antica (Herrich-Schaeffer), Wanz. Ins., iii, p. 92, fig. 316, 1835, *Anisoseclis*.

Dallas, List of Hemip., ii, p. 453, 1852, *Anisoseclis*.

praeceipua (Walker), Cat. Heter., iv, p. 128, 1871, *Anisoseclis*.

Localities: Fla. (Neotropical).

251. **Leptoglossus ashmeadi** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 237, 1909.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.

Locality: Fla.

252. **Leptoglossus clypealis** Heid.

Heidemann, Proc. Ent. Soc. Wash., xii, p. 195, pl. 8, fig. 1, 1910.

Localities: Colo., Utah, N. Mex., Ariz., Calif., Oregon.

Genus **Narnia** Stål

Haplotype *femorata* Stål

Stål, Stet. Ent. Zeit., xxiii, pp. 294, 296, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.

Stål, Enum. Hemip., i, p. 166, 1871.

Distant, Biol. Centr. Am., Heter., i, p. 126, 1881.

Subgenus **Narnia** Stål

Van Duzee, Ent. News, xvii, p. 386, 1906.

253. **Narnia femorata** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 296, 1862.

Stål, Enum. Hemip., i, p. 166, 1870.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.

Distant, Biol. Centr. Am., Heter., i, p. 127, pl. 13, fig. 4, 1881.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.

Van Duzee, Ent. News, xvii, p. 384, 1906.

Localities: Texas, N. Mex., Ariz. (Mexico.)

254. **Narnia inornata** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 361, pl. 33, fig. 10, 1892.

Banks, Cat. Neare. Hemip., p. 78, 1910.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. 113, p. 41, 1913.

Localities: Calif. (Mexico.)

255. **Narnia pallidicornis** Stål

Stål, Enum. Hemip., i, p. 166, 1870.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.

Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.

Van Duzee, Ent. News, xvii, p. 385, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. 113, p. 32, 1913.

Localities: Texas, Ariz., Calif. (Mexico.)

Subgenus **Xerocoris** Van D.Logotype *snowi* Van D.

Van Duzee, Ent. News, xvii, p. 384, 1906.

Van Duzee, Can. Ent., xl, p. 384, 1909 (names *snowi* type): xli, p. 372, 1910.

256. **Narnia snowi** Van D.

Van Duzee, Ent. News, xvii, p. 384, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. 113, p. 41, 1913.

Locality: Ariz.

257. **Narnia wilsoni** Van D.

Van Duzee, Ent. News, xvii, p. 385, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.

Localities: Ariz., Calif.

TRIBE **LEPTOSCELINI** (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867, *Leptoscelidida*.

Stål, Enum. Hemip., i, p. 167, 1870, Div. *Leptoscelidina*.

Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 50, 1894, Subfam. *Leptoscelidae*.

Bergroth, Mém. Soc. Ent. Belg., xx, p. 143, 1914, Div. *Leptoscelidaria*.

Genus **Phthia** StålLogotype *lunata* (Fabr.)

Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867.

Stål, Enum. Hemip., i, p. 169, 1870.

258. **Phthia picta** (Drury)

Drury, Illust. Exotic Ent., i, p. 107, pl. 45, fig. 1, 1770, *Cimex*.

Westwood, Hope Cat., ii, p. 17, 1842, *Leptoscelis*.

Dallas, List of Hemip., ii, p. 457, 1852, *Leptoscelis*.

Stål, Stet. Ent. Zeit., xxiii, p. 296, 1862.

Stål, Hemip. Fabr., i, p. 53, 1868.

Stål, Enum. Hemip., i, p. 170, 1870.

Walker, Cat. Heter., iv, p. 131, 1871.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 249, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 128, 1881.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.

ciliatus (Fabricius), Syst. Ent., p. 706, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 286, 1787, *Cimex*.

Fabricius, Ent. Syst., iv, p. 103, 1794, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 103, 1794, *Cimex*.

Fabricius, Syst. Rhynch., p. 164, 1803, *Cimex*.

leprosus (Fabricius), Syst. Ent., p. 719, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 364, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 299, 1787, *Cimex*.

- Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2171, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 154, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyn., p. 222, 1803, *Lygaeus*.
candelabrum (Goeze), Ent. Beytr., ii, p. 254, 1778, *Cimex*.
crenulatus (Fabricius), Spec. Ins., ii, p. 353, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 290, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2144, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 144, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyn., p. 250, 1803, *Aldus*.
dispar (Fabricius), Syst. Rhyn., p. 214, 1803, *Lygaeus*.
divisus (Herrich-Schaeffer), Wanz. Ins., vii, p. 9, fig. 685, 1844, *Anisoscelis*.
pulverulentus (Herrich-Schaeffer), Wanz. Ins., vii, p. 9, 1844, *Anisoscelis*.
obscura (Dallas), List of Hemip., ii, p. 458, 1852, *Leptoscelis*.
annulipes (Guerin) in Sagra, Hist. de Cuba, Ins., p. 388, 1857, *Anisoscelis*.
 Localities: Texas, Calif. (Neotropical.)

Genus **Amblyomia** Stål

Haplotype *bifasciata* Stål

- Stål, Enum. Hemip., i, p. 171, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 129, 1881.

259. **Amblyomia bifasciata** Stål

- Stål, Enum. Hemip., i, p. 172, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 129, 1881.
 Banks, Cat. Nearc. Hemip., p. 77, 1910.
 Localities: "West States."

TRIBE MICTINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 538, 1867, *Mictida*.
 Stål, Enum. Hemip., i, p. 130, 1870, *Mictina*; iii, pp. 34, 37, 1873, Div. *Mictaria*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Mictina*.
 Distant, Biol. Centr. Am., Heter., i, p. 106, 1881, *Mictinac*.
 Uhler, Check List, p. 10, 1886, *Mictina*.
 Lethierry and Severin, Cat. Génl. Hémi., ii, p. 5, 1894, *Mictidae*.
 Oshanin, Verz. Palae. Hemip., i, p. 177, 1906, Div. *Mictaria*.
 Oshanin, Kat. Palae. Hemip., p. 20, 1912, *Mictaria*.
Acanthoceraria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 144, 1913.

Genus **Thasus** Stål

Logotype *gigas* (Burm.)

- Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 174, 1865.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
 Stål, Enum. Hemip., i, p. 132, 1870.

260. **Thasus gigas** (Burm.)

- Burmeister, Handb. d. Ent., ii, p. 338, 1835, *Pachylis*.
 Brullé, Hist. Nat. des Ins., ix, p. 368, 1835, *Pachylis*.
 Blanchard, Hist. des Ins., Hémi., p. 121, 1840, *Pachylis*.
 Dallas, List of Hemip., ii, p. 383, 1852, *Pachylis*.
 Stål, Enum. Hemip., i, p. 132, 1870.
 Uhler, Wheeler's Surv. 100th Mer., v, p. 831, 1875, *Pachylis*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Pachylis*.

- Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Pachylis*.
 Distant, Biol. Centr. Am., Heter., i, p. 108, pl. 10, figs. 18, 19, 1881.
 Uhler, Check List, p. 10, 1886, *Pachylis*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894, *Pachylis*.
 Localities: N. Mex., Ariz. (Mexico.)

Genus **Mozena** Am. & Serv.

Haplotype *spinicrus* Am. & Serv. = *brunnicornis* (H. S.)

- Amyot and Serville, Hémip., p. 192, 1843.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
 Stål, Enum. Hemip., i, p. 134, 1870.
 Walker, Cat. Heter., iv, p. 46, 1871.
 ‡*Archimerus* Stål, Stet. Ent. Zeit., xxiii, pp. 277, 278, 1862.

Subgenus **Mozena** Am. & Serv.

- Stål, Enum. Hemip., i, p. 134, 1870.

261. **Mozena brunnicornis** (H. S.)

- Herrich-Schaeffer, Wanz. Ins., vi, p. 26, fig. 582, 1842, *Archimerus*.
 Stål, Enum. Hemip., i, p. 134, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 109, 1881.
 Banks, Cat. Nearc. Hemip., p. 80, 1910.
spinicrus Amyot and Serville, Hémip., p. 192, 1843.
 Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 175, 1865.
 Walker, Cat. Hemip., iv, p. 46, 1871.
 Localities: Ariz. (Mexico.)

262. **Mozena lineolata** (H. S.)

- Herrich-Schaeffer, Wanz. Ins., vi, p. 25, fig. 581, 1842, *Archimerus*.
 Dallas, List of Hemip., ii, p. 418, 1851, *Archimerus*.
 Stål, Enum. Hemip., i, p. 134, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 110, 1881.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
 Localities: Ariz., Calif. (Mexico.)

263. **Mozena obtusa** Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
 Townsend, Can. Ent., xxiv, p. 193, 1892.
 Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.
 Localities: Texas, N. Mex.

264. **Mozena lurida** (Dall.)

- Dallas, List of Hemip., ii, p. 417, 1852, *Archimerus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 279, 1862, *Archimerus*.
 Stål, Enum. Hemip., i, p. 135, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 111, pl. 12, fig. 1, 1881.
 Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
 Localities: Texas. (Neotropical.)

265. **Mozena lunata** (Burm.)

- Burmeister, Handb. d. Ent., ii, p. 322, 1835, *Archimerus*.
 Herrich-Schaeffer, Wanz. Ins., vi, p. 24, fig. 580, 1842, *Archimerus*.

- Dallas, List of Hemip., ii, p. 416, 1852, *Archimercus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 279, 1862, *Archimercus*.
 Stål, Enum. Hemip., i, p. 134, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 110, 1881.
 Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906; pt. 2, p. 158, 1907.
 Localities: Texas, N. Mex., Ariz. (Mexico.)

Subgenus **Rhombogaster** Dall.

Haplotype *lutea* H. S.

- Dallas, List of Hemip., ii, pp. 379, 415, 1852.
 Stål, Enum. Hemip., i, p. 135, 1870.
 †*Discogaster* Amyot and Serville, Hémip., p. 191, 1843.

266. **Mozena obesa** Montd.

- Montandon, Bul. Soc. Sci. Bucarest, viii, p. 190, 1899.
 Locality: Fla.

Genus **Capaneus** Stål

Logotype *rubro-notatus* Stål

- Stål, Stet. Ent. Zeit., xxiii, pp. 277, 279, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
 Stål, Enum. Hemip., i, p. 135, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 111, 1881.

Subgenus **Xuthus** Stål

Haplotype *auriculatus* Stål

- Stål, Enum. Hemip., i, p. 136, 1870.

267. **Capaneus auriculatus** Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 289, 1862.
 Stål, Enum. Hemip., i, p. 136, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 112, pl. 11, fig. 8, 1881.
 Localities: Texas, N. Mex. (Neotropical.)

Subgenus **Rhyparopharus** Stål

Haplotype *spurcus* Stål

- Stål, Enum. Hemip., i, p. 137, 1870.

268. **Capaneus spurcus** Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 291, 1862.
 Distant, Biol. Centr. Am., Heter., i, p. 113, pl. 12, fig. 3, 1881.
 Banks, Cat. Neare. Hemip., p. 80, 1910.
 Localities: Ariz. (Mexico.)

269. **Capaneus incubitor** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 136, 1794 *Lygacus*.
 Stål, Enum. Hemip., i, p. 227, 1870, *Lygacus*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 126, 1894, *Lygacus*.
 Locality: "Carolina."

Genus **Archimerus** Burm.Logotype *squalus* Burm. = *alternatus* Say

- Burmeister, Handb. d. Ent., ii, p. 321, 1835.
 ?Herrich-Schaeffer, Wanz. Ins., vi, p. 23, 1842; ix, p. 240, 1853.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
 Stål, Enum. Hemip., i, p. 137, 1871.
 Distant, Biol. Centr. Am., Heter., i, p. 130, 1881.
Piezogaster Amyot and Serville, Hémip., p. 197, 1843.
 Stål, Stet. Ent. Zeit., xxiii, pp. 277, 292, 1862. [loricata Dist.]
Ojedena Distant, Biol. Centr. Am., Heter., i, p. 356, 1892. (Haplotype)

270. **Archimerus calcarator** (Fabr.)

- Fabricius, Syst. Rhyng., p. 192, 1803, *Coreus*.
 Stål, Hemip. Fabr., i, p. 47, 1868.
 Stål, Enum. Hemip., i, p. 137, 1870 (not distinguished from next).
 ?Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
 Banks, Cat. Neare. Hemip., p. 80, 1910 (part).
 Localities: "Carolina," Fla.

271. **Archimerus alternatus** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 317, 1825; Compl. Writ., ii, p. 243.
 Stål, Of. Vet. Akad. Forh., xix, p. 504, 1872. [*Coreus*.]
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
squalus Burmeister, Handb. d. Ent., p. 321, 1835.
 ?*rubiginosus* Herrich-Schaeffer, Wanz. Ins., xi, p. 83, 1842.
muticus Herrich-Schaeffer, Wanz. Ins., vi, p. 52, fig. 612, 1842.
 ?Walker, Cat. Heter., iv, p. 63, 1871.
albonotatus (Amyot and Serville), Hémip., p. 197, 1843, *Piezogaster*.
 †*calcarator* Stål, Hemip. Fabr., i, p. 47, 1868.
 Stål, Enum. Hemip., i, p. 137, 1870 (part).
 Walker, Cat. Heter., iv, p. 62, 1871.
 Uhler, Hayden's Surv. Terr. for 1871, p. 399, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.
 Gillette and Baker, Hemip. Colo., p. 17, 1895.
 Banks, Cat. Neare. Hemip., p. 80, 1910 (part).
 Localities: N. J., N. C., Tenn., Ill., Mich., Wis., Kan., Okl., Colo.

272. **Archimerus indecorus** Walk.

- Walker, Cat. Heter., iv, p. 64, 1871.
 Distant, Biol. Centr. Am., Heter., i, p. 114, pl. 12, figs. 4, 5, 1881.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
 Localities: Ariz. (Mexico.)

273. **Archimerus ashmeadi** Montd.

- Montaudon, Bul. Soc. Sci. Bucarest, viii, p. 194, 1899.
 Locality: Fla.

Genus **Mamurius** StålHaplotype *mopsus* Stål

- Stål, Stet. Ent. Zeit., xxiii, pp. 278, 293, 1862.
 Stål, Enum. Hemip., i, p. 138, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 115, 1881.

274. *Mamurius mopsus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 293, 1862.

Stål, Enum. Hemip., i, p. 138, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 115, pl. 12, fig. 15, 1881.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.

Localities: Ariz. (Mexico.)

Genus *Hymeniphera* Lap.

Orthotype *crucifer* P. B.

Laporte, Essai Classif. Syst. Hémip., p. 43, 1832.

Kirkaldy, Entomol., xxxiii, p. 240, 1900.

†*Hymenophora* Amyot and Serville, Hémip., p. 212, 1843.

Stål, Of. Vet. Akad. Forh., xxiv, p. 539, 1867.

Mayr, Reise Freg. Novara, Zool., ii, p. 88, 1868.

†*Acanthocerus* Stål, Enum. Hemip., i, p. 144, 1870.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 20, 1894.

Distant, Biol. Centr. Am., Heter., i, p. 116, 1881.

275. *Hymeniphera lobata* (Burm.)

Burmeister, Handb. d. Ent., ii, p. 318, 1835, *Crinocerus*.

Herrich-Schaeffer, Wanz. Ins., vi, p. 17, fig. 573, 1842, *Crinocerus*.

Guerin, Sagra, Hist. de Cuba, Ins., p. 382, 1857, *Corcus* (*Camptischium*).

Stål, Enum. Hemip., i, p. 144, 1870.

Walker, Cat. Heter., iv, p. 113, 1871, *Crinoecerus*.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.

Localities: N. Mex. (West Indies.)

Genus *Euthochtha* Mayr

Haplotype *galeator* (Fabr.)

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 431, 1865.

Mayr, Reise Freg. Novara, Zool., ii, p. 88, 1868.

Stål, Of. Vet. Akad. Forh., xxiv, p. 539, 1867.

Stål, Enum. Hemip., i, p. 145, 1870 (as subgen. of *Acanthocerus*).

276. *Euthochtha galeator* (Fabr.)

Fabricius, Syst. Rhyng., p. 191, 1803, *Corcus*.

Dallas, List of Hemip., ii, p. 408, 1852, *Crinocerus*.

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 431, 1865.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 87, 1866.

Stål, Hemip. Fabr., i, p. 49, 1868.

Stål, Enum. Hemip., i, p. 145, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878.

Bueno, Can. Ent., xl, p. 165, 1908 (larva).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.

tibialis (Herrich-Schaeffer), Wanz. Ins., vi, p. 21, fig. 576, 1842, *Crinocerus*.

Localities: Mass., Conn., N. Y., N. J., Pa., Va., N. C., Fla., Ohio,

Ill., Mich., Wis., Neb., Kan., Texas.

TRIBE CORECORINI Van D.

- Van Duzee, Check List Hemip., p. 12, 1916 (n.n. for *Spartoceridae* Dall.).
Spartoceridae Dallas, List of Hemip., ii, p. 369, 1852.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867, *Spartocerida*.
 Stål, Enum. Hemip., i, p. 172, 1870, Div. *Spartocerina*.
 Berg, Hemip. Argent., p. 75, 1879, Div. *Spartoceraria*.
 Distant, Biol. Centr. Am., Heter., i, p. 129, 1881 Div. *Spartoceraria*.
Meneotaria Bergroth, Mem. Soc. Ent. Belg., xxii, p. 147, 1913 (Division).

Genus *Corecoris* HahnHaplotype *cinnamomeus* Hahn

Hahn, Wanz. Ins., ii, p. 14, 1834.

♂ *Spartocera* Laporte, Essai Classif. Syst. Hémip., pp. 42, 43, 1832.

‡ *Spartocerus* Burmeister, Handb. d. Ent., ii, pp. 341, 342, 1835.

Herrich-Schaeffer, Wanz. Ins., vi, p. 11, 1842, *Spartocerus*.

Amyot and Serville, Hémip., p. 186, 1843, *Spartocera*.

Spinola, Tavola Sinot., p. 41, 1850, *Spartocera*.

Dallas, List of Hemip., ii, pp. 370, 373, 1852, *Spartocera*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 189, 1853, *Spartocera*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867, *Spartocera*.

Stål, Enum. Hemip., i, p. 172, 1870, *Spartocera*.

Walker, Cat. Hemip., iv, p. 4, 1871, *Spartocera*.

Distant, Biol. Centr. Am., Heter., i, p. 130, 1881, *Spartocera*.

‡ *Corecoris* Brullé, Hist. des Ins., ix, p. 365, 1835.

Spinola Essai sur les Hémip., p. 150, 1837.

277. *Corecoris fuscus* (Thunb.)

Thunberg, Nova Ins., Spec. ii, p. 44, 1783, *Cimex*.

Dohrn, Cat. Hemip., p. 23, 1859, *Spartocera*.

Stål, Rio Jan. Hemip., i, p. 29, 1860, *Spartocera*.

Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 79, 1866, *Spartocera*.

Stål, Hemip. Fabr., i, p. 54, 1868, *Spartocera*.

Stål, Enum. Hemip., i, p. 174, 1870, *Spartocera*.

Berg, Hemip. Argent., p. 76, 1879, *Spartocera*.

Distant, Biol. Centr. Am., Heter., i, p. 130, 1881, *Spartocera*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 420, 1901, *Spartocera*.

moestus (Fabricius), Ent. Syst., iv, p. 198, 1794, *Reduvius*.

Fabricius, Syst. Rhyng., p. 193, 1803, *Coreus*.

Dallas, List of Hemip., ii, p. 374, 1852, *Spartocera*.

geniculatus (Burmeister), Handb. d. Ent., ii, p. 342, 1835, *Spartocerus*.

Herrich-Schaeffer, Wanz. Ins., vi, p. 89, fig. 660, 1842, *Spartocerus*.

Amyot and Serville, Hémip., p. 186, 1843, *Spartocera*.

Guerin in Sagra, Hist. de Cuba, Ins., p. 378, 1857, *Coreus*.

scrullatus (Herrich-Schaeffer), Wanz. Ins., vi, pp. 12, 90, fig. 968, 1842.

lateritus (Westwood), Hope Cat., ii, p. 7, 1842, *Spartocera*. [*Spartocera*

affinis (Westwood), Hope Cat., ii, p. 7, 1842, *Spartocera*.

‡ *diffusa* (Uhler), Proc. Zool. Soc. Lond. for 1893, p. 705, *Spartocera*

Localities: Fla. (Neotropical.)

278. *Corecoris diffusus* (Say)

Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 770; Compl. Writ., i, p.

Stål, Enum. Hemip., i, p. 175, 1870, *Spartocera*.

[325, *Coreus*

Uhler, Check List, p. 9, 1886, *Spartocera*.

†*cinnamomea* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876, *Spartocera*.
Banks, Cat. Neare. Hemip., p. 81, 1910, *Spartocera*. [225, *Coreus*.]

Localities: Ga., Fla., N. Mex., Texas.

[This species may not be distinct from *fuscus*.]

279. *Corecoris confluentus* (Say)

Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 769; Compl. Writ., i, p.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Sagotylus*. [325, *Coreus*.]
Uhler, Check List, p. 10, 1886, *Sagotylus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894, *Sagotylus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909, *Spartocera*.

Localities: Fla., Ariz., Calif. (Mexico.)

Genus *Sephina* Am. & Serv.

Haplotype *pustulata* (Fabr.)

Amyot and Serville, Hémip., p. 185, 1843.

Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867.

Stål, Enum. Hemip., i, p. 176, 1870.

Walker, Cat. Heter. iv, p. 3, 1871.

Distant, Biol. Centr. Am., Heter., i, p. 131, 1881.

280. *Sephina gundlachii* (Guer.)

Guerin in Sagra, Hist. de Cuba, Ins., p. 377, pl. 13, fig. 6, 1857, *Corcus*.

Stål, Enum. Hemip., i, p. 177, 1870.

Banks, Cat. Neare. Heter., p. 81, 1910.

Localities: Fla. (Banks). (West Indies.)

281. *Sephina grayi* Van D.

Van Duzee, Ent. News, xx, p. 232, 1909.

Locality: Fla.

282. *Sephina limbata* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 273, 1862.

Stål, Enum. Hemip., i, p. 177, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 132, pl. 12, fig. 22, 1881.

Banks, Cat. Neare. Hemip., p. 81, 1910.

Localities: Calif. (?) (Banks). (Neotropical.)

TRIBE *CHARIESTERINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867, *Chariesterida*.

Stål, Enum. Hemip., i, p. 178, 1870, Div. *Chariesterina*.

Distant, Biol. Centr. Am., Heter., i, p. 133, 1881, *Chariesteria*.

Uhler, Check List., p. 9, 1886, *Chariesterina*.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 62, 1894, Subfam. *Chariesterida*.

Genus *Chariesterus* Lap.

Orthotype *gracilis* Lap. = *armatus* Thunb.

Laporte, Essai Classif. Syst. Hémip., p. 44, 1832.

Burmeister, Handb. d. Ent., ii, p. 316, 1835.

Spinola, Essai sur les Hémip., p. 145, 1837 (1840).

- Blanchard, Hist. des Ins., Hémip., p. 120, 1840 (as subgen. of *Coreus*).
 Amyot and Serville, Hémip., p. 210, 1843.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 3, 1844.
 Spinola, Tavola Sinot., p. 41, 1850.
 Dallas, List of Hemip., ii, p. 510, 1852.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 237, 248, 1853.
 Stål, Of. Vet. Akad. Forh., xvi, p. 473, 1859; xxiv, p. 546, 1867.
 Stål, Enum. Hemip., i, p. 178, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 133, 1881.

283. *Chariesterus antennator* (Fabr.)

- Fabricius, Syst. Rhyng., p. 198, 1803, *Coreus*. [323, *Gonocerus*.
 Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p.
 Blanchard, Hist. des Ins. Hémip., p. 120, 1840 (excl. synonym.).
 Dallas, List of Hemip., ii, p. 510, 1852.
 Stål, Enum. Hemip., i, p. 178, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876; iii, p. 405, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 385, 1878.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
 Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910. [Writ., i, p. 323, *Gonocerus*.
dubius (Say), Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl.
†moestus (Herrich-Schaeffer), Wanz. Ins., vii, p. 3, fig. 681, 1844.
 Localities: Pa., N. J., Va., N. C., Ga., Fla., Ind., Mich., Kan., Okl.,
 Colo., Texas.

284. *Chariesterus cuspidatus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 364, pl. 33, fig. 14, 1892.
 Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
 Localities: Texas. (Panama.)

285. *Chariesterus albiventris* Burm.

- Burmeister, Handb. d. Ent., ii, p. 317, 1835.
 Stål, Enum. Hemip., i, p. 178, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 134, pl. 13, fig. 11, 1881.
 Snow, Trans. Kan. Acad. Sci., xx, pl. 1, p. 151, 1906.
 Localities: Texas. (Mexico.)

TRIBE COREINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867, *Coreida*.
 Stål, Enum. Hemip., i, p. 180, 1870, *Coreina*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 51, 1872, *Corcaria*.
 Stål, Enum. Hemip., iii, p. 37, 1873, *Corcaria*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876, *Coreina*.
 Distant, Biol. Centr. Am., Heter., i, p. 135, 1881, Div. *Corcaria*.
 Uhler, Check List, p. 11, 1886, *Corcaria*.
 Oshanin, Kat. Palae. Hemip., p. 21, 1912, *Corcaria*.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 153, 1913 (as division).

Centrosclidae Lethierry and Severin, Cat. Génl. Hémip., ii, p. 69, 1894

[(as subfamily.)

Oshanin, Verz. Palae. Hemip., i, p. 185, 1906, Div. *Centrosclidaria*.

Hypselonotaria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 149, 1913 (as [division.]

Genus **Madura** Stål

Haplotype *fusco-clavata* Stål

Stål, Rio Jan. Hemip., i, p. 35, 1860.

Stål, Stet. Ent. Zeit., xxiii, p. 305, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 135, 1881.

286. **Madura perfida** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 304, 1862.

Stål, Enum. Hemip., i, p. 180, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 135, pl. 13, fig. 16, 1881.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 179, 1894.

Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.

Localities: Texas. (West Indies, Mexico.)

Genus **Chelinidea** Uhler

Haplotype *vittiger* Uhler

Uhler, Trans. Am. Ent. Soc., ii, p. 365, 1863.

Stål, Enum. Hemip., i, p. 180, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 136, 1881.

Provancher, Pet. Faune Ent. Can., iii, p. 54, 1885. [tabulata Burm.)

Xiphares Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867. (Orthotype

287. **Chelinidea tabulata** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 311, 1835, *Gonocerus*.

Stål, Stet. Ent. Zeit., xxiii, p. 304, 1862, *Pluventis*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867, *Xiphares*.

Stål, Enum. Hemip., i, p. 181, 1870.

Walker, Cat. Heter., iv, p. 184, 1871, *Xiphares*.

Distant, Biol. Centr. Am., Heter., i, p. 136, pl. 13, fig. 17, 1881.

Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 19, 1913.

Localities: Texas, Utah, Colo., Calif. (Mexico.)

288. **Chelinidea vittiger** Uhl.

Uhler, Trans. Am. Ent. Soc., ii, p. 366, 1863.

Stål, Enum. Hemip., i, p. 180, 1870.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 405, 1877.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.

Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.

Townsend, Can. Ent., xxiv, p. 193, 1892.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.

Gillette and Baker, Hemip. Colo., p. 17, 1895.

Van Duzee, Can. Ent., xlv, p. 319, 1912.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 15, 1913.
Localities: Quebec(?), Va., Ga., La., Colo., N. Mex., Utah, Idaho,
Texas, Ariz., Calif.

Genus **Margus** Dall.

Logotype *pectoralis* Dall.

Dallas, List of Hemip., ii, p. 523, 1852.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 549, 1867.
Stål, Hemip. Fabr., i, pp. 57, 58, 1868.
Stål, Enum. Hemip., i, p. 184, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 136, 1881.
Bergroth, Ann. Soc. Ent. Belg., lvi, p. 88, 1912.
Althos Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Margus*).
Banks, Cat. Nearc. Hemip., p. 75, 1910.

289. **Margus inconspicuus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 14, fig. 570, 1842, *Syromastes*.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Hemip. Fabr., i, p. 58, 1868.
Stål, Enum. Hemip., i, p. 184, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Surv., i, p. 292, 1876; iii, p. 405, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Distant, Biol. Centr. Am., Heter., i, p. 137, 1881.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Localities: Colo., N. Mex., Texas., Ariz., Calif. (Mexico.)

290. **Margus obscurator** (Fabr.)

Fabricius, Syst. Rhyng., p. 200, 1803, *Coreus*.
Stål, Hemip. Fabr., i, pp. 57, 58, 1868.
Stål, Enum. Hemip., i, p. 185, 1870.
Berg. Hemip. Argent., p. 81, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 137, 1881.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 424, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909, *Althos*.
impudens Stål, Rio Jan. Hemip., i, p. 37, 1860.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
sinornatus Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.
Localities: Fla. (Neotropical.)

Genus **Namacus** Am. & Serv.

Haplotype *transvirgatus* A. & S.

Amyot and Serville, Hémip., p. 242, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867.
Stål, Enum. Hemip., i, p. 186, 1870. [*prominulus* Stål.]
Dinallus Stål, Of. Vet. Akad. Forh., xvi, p. 454, 1859. (Haplotype

291. **Namacus annulicornis** Stål

Stål, Enum. Hemip., i, p. 186, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 137, pl. 14, fig. 8, 1881.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 520, 1914.
Localities: Fla. (Mexico.)

Genus **Scolopocerus** Uhl.Haplotype *secundarius* Uhl.

Uhler, Wheeler's Surv. 100th Mer., v, p. 832, 1875.

Distant, Biol. Centr. Am., Heter., i, p. 164, 1881.

Van Duzee, Can. Ent., xli, p. 372, 1909.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 167, 1914. (Key.)

292. **Scolopocerus secundarius** Uhl.

Uhler, Wheeler's Surv. 100th Mer., v, p. 833, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.

Gillette and Baker, Hemip. Colo., p. 19, 1895.

Barber, Brookl. Inst. Sci. Bul., i, p. 268, 1906.

Localities: Colo., Texas, Ariz. (Mexico.)

293. **Scolopocerus granulatus** Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 166, 1914.

Locality: Texas.

294. **Scolopocerus uhleri** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 164, pl. 16, fig. 6, 1881.

Barber, Brookl. Inst. Sci. Bul., i, p. 269, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Localities: Ariz., N. Mex.

Genus **Catorhintha** StålLogotype *guttula* Fabr.

Stål, Of. Vet. Akad. Forh., xvi, p. 470, 1859.

Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.

Stål, Of. Vet. Akad. Forh., xxiv, p. 549, 1867.

Stål, Enum. Hemip., i, p. 187, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 138, 1881.

295. **Catorhintha guttula** (Fabr.)

Fabricius, Ent. Syst., iv, p. 162, 1794, *Lygaeus*.

Fabricius, Syst. Rhyng., p. 228, 1803, *Lygaeus*.

Stål, Of. Vet. Akad. Forh., xvi, p. 471, 1859.

Stål, Hemip. Fabr., i, p. 58, 1868.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.

Gillette and Baker, Hemip. Colo., p. 18, 1895.

Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 424, 1901.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 12, 1907; ix, p. 160, 1909.

dorsiger (Westwood), Hope Cat., ii, p. 25, 1842, *Gonocerus*.

Dallas, List of Hemip., ii, p. 504, 1852, *Anasa*.

Guerin, Sagra, Hist. de Cuba, Ins., p. 380, 1857, *Coreus*.

✧*selector* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.

Localities: Fla., Okl., Texas, N. Mex., Colo., Ariz. (Neotropical.)

296. **Catorhintha mendica** Stål

Stål, Enum. Hemip., i, p. 187, 1870.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 405, 1877.
 Wheeler's Rept. Chief Eng., for 1877, p. 1324.
 Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 13, fig. 21, 1881.
 Gillette and Baker, Hemip. Colo., p. 18, 1895.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Localities: Dak., Colo., Okl., Texas, Ariz. (Mexico.)

297. *Catorhintha selector* Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 471, 1859.
 Stål, Enum. Hemip., i, p. 188, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 13, fig. 19, 1881.

Localities: Texas, N. Mex., Ariz. (Mexico.)

298. *Catorhintha texana* Stål

- Stål, Enum. Hemip., i, p. 188, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
 Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Localities: Okl., N. Mex., Texas, Ariz.

Genus *Ficana* Stål

Haplotype *apicalis* (Dall.)

- Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
 Stål, Enum. Hemip., i, p. 188, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 138, 1881.

299. *Ficana apicalis* (Dall.)

- Dallas, List of Hemip., ii, p. 499, 1852, *Gonocerus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
 Stål, Enum. Hemip., i, p. 188, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 14, fig. 1, 1881.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.
 Gillette and Baker, Hemip. Colo., p. 18, 1895.

Localities: Colo.(?), Ariz., Calif. (Mexico.)

Genus *Cimolus* Stål

Haplotype *ritticeps* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 302, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
 Stål, Enum. Hemip., i, p. 188, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 139, 1881.

300. *Cimolus obscurus* Stål

- Stål, Enum. Hemip., i, p. 189, 1870.
 Localities: S. C., Texas.

Genus *Anasa* Am. & Serv.Haplotype *cornuta* Am. & Serv.

- Amyot and Serville, Hémip., p. 209, 1843.
 Dallas, List of Hemip., ii, p. 504, 1852.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 238, 251, 1853.
 Stål, Stet. Ent. Zeit., xxiii, p. 299, 1862.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
 Stål, Hemip. Fabr., i, p. 57, 1868.
 Stål, Enum. Hemip., i, p. 189, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 139, 1881. [tristis De Geer.
 †*Oriterus* Hahn, Wanz. Ins., i, p. 8, 1831. (Used for *destructor* Hahn =
 Stål, Hemip. Fabr., v, p. 57, 1868.
 Stål, Enum. Hemip., i, p. 189, 1870 (subgen. of *Anasa*).
 ‡*Acanthocerus* Stål, Enum. Hemip., i, p. 192, 1870 (in part).

301. *Anasa tristis* (De Geer)

- De Geer, Mémoires, iii, p. 340, pl. 34, fig. 20, 1773, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 269, 1778, *Cimex*.
 Dallas, List of Hemip., ii, p. 499, 1852, *Gonocerus*.
 Stål, Hemip. Fabr., i, p. 56, 1868.
 Stål, Enum. Hemip., i, p. 189, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 406, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 385, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 139, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 53, 1885.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
 Gillette and Baker, Hemip. Colo., p. 18, 1895.
 Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
moestus (Gmelin), in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2168,
 Tigny, Hist. des Ins., Edn. 2, iv, p. 275, 1813, *Cimex*. [1788, *Cimex*.
rugator (Fabricius), Syst. Rhyn., p. 192, 1803, *Coreus*.
 Burmeister, Handb. d'Ent., ii, p. 311, 1835, *Gonocerus*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 104, 1853, *Homococcrus*.
ordinatus (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 318, 1825; Compl. Writ.,
 [ii, p. 244, *Coreus*.
destructor (Hahn), Wanz. Ins., i, p. 8, fig. 2, 1831, *Oriterus*.
 Localities: Quebec, Ont., Mass., Conn., N. Y., N. J., Pa., Md., Fla.,
 N. C., Ala., Ohio, Ill., Mich., Colo., Okl., N. Mex., Texas, Ariz.,
 Calif. (Mexico.)

302. *Anasa uhleri* Stål

- Stål, Hemip. Fabr., i, p. 57, 1868.
 Stål, Enum. Hemip., i, p. 190, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 141, pl. 13, fig. 23, 1881.
 Uhler, Check List, p. 11, 1886.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
 Localities: "West States" (Uhler). (Mexico.)

303. *Anasa andrewsi* (Guerin).

Guerin in Sagra, Hist. de Cuba, Ins., p. 383, pl. 13, fig. 9, 1857, *Coreus*.

Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 186, 1865.

Stål, Hemip. Fabr., i, p. 57, 1868.

Stål, Enum. Hemip., i, p. 190, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 141, 1881.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.

Barber, Brookl. Inst. Sci. Bul., i, p. 268, 1906.

lugens Stål, Stet. Ent. Zeit., xxiii, p. 301, 1862.

Localities: Fla., La., Texas, N. Mex. (Neotropical.)

304. *Anasa repetita* Heid.

Heidemann, Proc. Ent. Soc. Wash., vii, p. 11, 1905.

Localities: N. Y., D. C., Md.

305. *Anasa obliquua* (Uhl.)

Uhler, Proc. Am. Ent. Soc., i, p. 23, 1861, *Gonocerus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.

Localities: Calif.

306. *Anasa scorbutica* (Fabr.)

Fabricius, Syst. Ent., p. 706, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 349, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 286, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2141, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 129, 1794, *Coreus*.

Fabricius, Syst. Rhyng., p. 185, 1803, *Coreus*.

Stål, Hemip. Fabr., i, pp. 56, 57, 1868.

Stål, Enum. Hemip., i, p. 192, 1870.

Walker, Cat. Heter., iv, p. 108, 1871.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.

Berg, Hemip. Argent., p. 82, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 142, 1881.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.

nebulosa (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 205, pl. Hé mip., 12, fig.

moesta Dallas, List of Hemip., ii, p. 505, 1852. [6, 1805, *Acanthocerus*.

Guerin in Sagra, Hist. de Cuba, Ins., p. 380, 1857, *Coreus*.

spiniceps Stål, Stet. Ent. Zeit., xxiii, p. 300, 1862.

Localities: Fla., Okl., Texas. (West Indies, Mexico.)

307. *Anasa armigera* (Say)

Say, Jl. Acad., Nat. Sci. Phila., iv, p. 319, 1825; Compl. Writ., ii, p. 244.

Stål, Hemip. Fabr., i, p. 57, 1868. [Coreus.

Stål, Enum. Hemip., i, p. 192, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.

Bueno and Brimley, Ent. News, xviii, p. 440, 1907.

Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.

terminalis Dallas, List of Hemip., ii, p. 506, 1852.

Localities: N. J., Pa., Md. Va., N. C., S. C., Ga., Fla., Ohio, Kan.,

Okl., Texas.

Genus **Zicca** Am. & Serv.Haplotype *nassulata* A. & S. = *nigropunctata* De GeerAmyot and Serville, *Hémip.*, p. 240, 1843.Stål, *Of. Vet. Akad. Forh.*, xxiv, p. 547, 1867.Stål, *Enum. Hemip.*, i, p. 198, 1870.Distant, *Biol. Centr. Am., Heter.*, i, p. 146, 1881.308. **Zicca taeniola** (Dall.)Dallas, *List of Hemip.*, ii, p. 514, 1852, *Clavigralla*.Stål, *Stet. Ent. Zeit.*, xxiii, p. 299, 1862.Stål, *Enum. Hemip.*, i, p. 199, 1870.Distant, *Biol. Centr. Am., Heter.*, i, p. 147, pl. 14, fig. 13, 1881.Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, viii, No. 5, p. 12, 1907. [*Gonocerus*.*?obsoletus* (Herrich-Schaeffer), *Wanz. Ins.*, vi, p. 10, fig. 567, 1842,Mayr, *Reise Freg. Novara, Zool. ii, Hemip.*, p. 119, 1866, *Cletus*.Stål, *Enum. Hemip.*, iii, p. 78, 1873, *Cletus*.*delicatus* (Guerin), in Sagra, *Hist. de Cuba, Ins.*, p. 384, 1857, *Corcus*.[*Taeniola* is probably identical with *obsoletus*, in which case it must fall as synonym.]

Localities: "N. Am." (H. S.). (Neotropical.)

Genus **Hypselonotus** HahnLogotype *interruptus* HahnHahn, *Wanz. Ins.*, i, p. 186, 1831.Burmeister, *Handb. d. Ent.*, ii, p. 319, 1835.Brullé, *Hist. des Ins.*, ix, p. 370, 1835.Spinola, *Essai sur les Hémip.*, p. 200, 1837 (1840).Blanchard, *Hist. des Ins., Hemip.*, p. 126, 1840.Amyot and Serville, *Hémip.*, p. 241, 1843.Spinola, *Tavola Sinot.*, p. 40, 1850.Dallas, *List of Hemip.*, ii, p. 464, 1851.Herrich-Schaeffer, *Wanz. Ins.*, ix, pp. 243, 268, 1853.Stål, *Of. Vet. Akad. Forh.*, xxiv, p. 548, 1867.Stål, *Enum. Hemip.*, i, p. 201, 1870.Distant, *Biol. Centr. Am., Heter.*, i, p. 150, 1881.Horvath, *Ann. Mus. Natl. Hung.*, xi, p. 365, 1913. (Key.)309. **Hypselonotus punctiventris** StålStål, *Stet. Ent. Zeit.*, xxiii, p. 297, 1862.Stål, *Enum. Hemip.*, i, p. 201, 1870.Distant, *Biol. Centr. Am., Heter.*, i, p. 150, pl. 14, fig. 23, 1881.Barber, *Brookl. Inst. Sci. Bul.*, i, p. 268, 1906.Horvath, *Ann. Mus. Natl. Hung.*, xi, pp. 366, 369, 1913.

Localities: Texas. (Mexico.)

310. **Hypselonotus fulvus** (De Geer)De Geer, *Mémoires*, iii, p. 341, pl. 34, fig. 22, 1773, *Cimex*.Goeze, *Ent. Beytr.*, ii, p. 269, 1778, *Cimex*.Dallas, *List of Hemip.*, ii, p. 464, 1852.Mayr, *Reise Freg. Novara, Zool. ii, Hemip.*, p. 100, 1866.Stål, *Enum. Hemip.*, i, p. 201, 1870.

Berg, Hemip. Argent., p. 86, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 151, 1881.

Banks, Cat. Neare. Hemip., p. 77, 1910.

Horvath, Ann. Mus. Natl. Hung., xi, pp. 366, 369, 1913.

a. var. **venosus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 142, 1794, *Lygæus*.

Fabricius, Syst. Rhyng., p. 213, 1803, *Lygæus*.

Brullé, Hist. des Ins., ix, p. 371, 1835.

Stål, Hemip. Fabr., i, p. 56, 1868.

Localities: Texas(?) (Banks). (Neotropical.)

Genus **Paryphes** Burm.

Logotype *lactus* (Fabr.)

Burmeister, Handb. d. Ent., ii, p. 335, 1835.

Blanchard, Hist. des Ins., Hémip., p. 123, 1840.

Amyot and Serville, Hémip., p. 202, 1843.

Dallas, List of Hemip., ii, pp. 438, 439, 1852.

Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.

Stål, Enum. Hemip., i, p. 204, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 154, 1881.

[*lactus* type.]

Horvath, Ann. Mus. Natl. Hung., xi, p. 344, 1913. (Monograph; names

311. **Paryphes rufoscutellatus** (Gray)

Gray, Griffith's Anim. Kingd., xv, p. 241, pl. 97, fig. 1, 1832, *Nematopus*.

Stål, Enum. Hemip., i, p. 205, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 154, 1881.

Banks, Cat. Neare. Hemip., p. 77, 1910.

Localities: "Calif."(?) (Banks). (Mexico.)

Subfamily ALYDINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xxxiv, 221, 1843, *Alydides*.

Dallas, List of Hemip., ii, p. 467, 1852, Fam. *Alydidæ*.

Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 542, 1867, Subfam. *Alydida*.

Stål, Enum. Hemip., i, p. 209, 1870, Subfam. *Alydina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 50, 53, 1872, Subfam. *Alydina*.

Stål, Enum. Hemip., iii, pp. 34, 84, 1873, Subfam. *Alydina*.

Distant, Biol. Centr. Am., Heter., i, p. 156, 1881.

Uhler, Check List, p. 12, 1886.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 105, 1894, Subfam. *Alydidæ*.

Distant, Fauna Br. Ind., Rhyng., i, p. 407, 1902.

Oshanin, Kat. Palæ. Hemip., p. 23, 1912.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912, *Alydidæ*.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 15, 1913.

TRIBE *MICRELYTRINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867, *Micrelytrida*.

Stål, Enum. Hemip., i, p. 215, 1870, Div. *Micrelytrina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 53, 1872, Div. *Micrelytraria*.

Stål, Enum. Hemip., iii, p. 84, Div. *Micrelytraria*.

Distant, Biol. Centr. Am., Heter., i, p. 158, 1881, Div. *Micrelytraria*.

Distant, Fauna Br. Ind., Rhyng., i, p. 407, 1902, Div. *Micrelytraria*.

Oshanin, Kat. Palae. Hemip., p. 24, 1912, Tribe *Micrellytraria*.
 Bergroth, Mem. Soc. Ent. Belg., xxii, p. 158, 1913, Div. *Micrellytraria*.

Genus **Protenor** Hagl.

Haplotype *belfragei* Hagl.

Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867 (invalid here).
 Haglund, Stet. Ent. Zeit., xxix, p. 162, 1868 (validated by describing
 Stål, Enum. Hemip., i, p. 217, 1870. [i*belfragei*].)
 Distant, Biol. Centr. Am., Heter., i, p. 160, 1881.
Tetrarhinus Prov., Nat. Can., iv, p. 75, 1872. (Haplotype *quebecensis* Prov.)

312. **Protenor belfragei** Hagl.

Haglund, Stet. Ent. Zeit., xxix, p. 162, 1868.
 Stål, Enum. Hemip., i, p. 217, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
 Smith, Cat. Ins. N. J., Edu. 3, p. 147, 1910.
 Van Duzee, Can. Ent., xlv, p. 319, 1910.
quebecensis (Provancher), Nat. Can., iv, p. 76, 1872, *Tetrarhinus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 57, 1885, *Tetrarhinus*.
 Localities: Quebec, Ont., N. Y., N. J., Md., Ill., Mich., Wise., Colo.,
 Texas.

Genus **Darmistus** Stål

Haplotype *subvittatus* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 469, 1859; xxiv, p. 543, 1867.
 Stål, Enum. Hemip., i, p. 217, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 160, 1881.

313. **Darmistus subvittatus** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 469, 1859.
 Stål, Enum. Hemip., i, p. 217, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 160, pl. 15, fig. 10, 1881.
 Gillette and Baker, Hemip. Colo., p. 19, 1895.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
 Localities: Colo., Texas, Calif.

Genus **Cydamus** Stål

Haplotype *adspersipes* Stål

Stål, Rio Jan. Hemip., i, p. 33, 1860.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.
 Stål, Enum. Hemip., iii, p. 88, 1873.
 Distant, Biol. Centr. Am., Heter., i, p. 159, 1881.

314. **Cydamus borealis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 159, pl. 15, fig. 11, 1881.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
 Localities: Texas. (Guatemala.)

Genus **Esperanza** Barb.Haplotype *texana* Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 269, 1906.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 158, 1913. (Subgen. of *Cydamus*.)315. **Esperanza texana** Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 270, 1906.

Locality: Texas.

TRIBE *LEPTOCORISINI* (Stål)Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Leptocorisaria*.Stål, Enum. Hemip., iii, p. 85, 1873, Div. *Leptocorisaria*.Distant, Biol. Centr. Am., Heter., i, p. 161, 1881, Div. *Leptocorisaria*.

Uhler, Check List, p. 12, 1886. [corisida.]

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 102, 1894, Subfam. *Lepto-*Distant, Fauna Br. Ind., Rhyn., i, p. 409, 1902, Div. *Leptocorisaria*.Oshanin, Kat. Palae. Hemip., p. 24, 1912, Tribe *Leptocorisaria*.Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913, Div. *Leptocorisaria*.†*Gerrida* Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867.Stål, Enum. Hemip., i, p. 217, 1870, *Gerrina*.†*Myodochinae* Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xiv, p. 306, 1902.Genus **Leptocoris** Latr.Orthotype *varicornis* (Fabr.)Latreille in Cuvier, Règn. Anim., Edn. 2, v, p. 197, 1829 (n.n. for *Gerris* Fabr.).

Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836. [of 1803.]

Laporte, Essai Classif. Syst. Hémip., p. 25, 1832. (Names *linearis* type.)

Spinola, Essai sur les Hémip., p. 194, 1837 (1840).

Blanchard, Hist. des Ins., Hémip., p. 125, 1840.

Amyot and Serville, Hémip., p. 228, 1843.

Spinola, Tavola Sinot., p. 42, 1850.

Dallas, List of Hemip., ii, p. 482, 1851.

Dohrn, Cat. Hemip., p. 29, 1859.

Fieber, Europ. Hemip., pp. 58, 224, 1861.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 112, 1868.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.

Stål, Enum. Hemip., iii, pp. 86, 87, 1873.

Distant, Biol. Centr. Am., Heter., i, p. 161, 1881.

Uhler, Check List, p. 13, 1886.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 102, 1894.

Distant, Fauna Br. Ind., Rhyn., i, p. 409, 1902 (cites *tipuloides* as type).

Oshanin, Verz. Palae. Hemip., i, p. 212, 1906.

Oshanin, Kat. Palae. Hemip., p. 24, 1912.

†*Gerris* Fabricius, Syst. Rhyn., p. 260, 1803 (not of 1794). (Type *vari-*

Stål, Hemip. Afr., ii, p. 87, 1865. [cornis Fabr.]

Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867.

Stål, Hemip. Fabr., i, p. 66, 1868.

Stål, Enum. Hemip., i, p. 217, 1870.

• *Myodocha* Latreille, Genera Crust. Ins., iii, p. 126, 1807 (n.n., invalid here).Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 496, 1816 (for *tipuloides* and

Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xiv, p. 306, 1902. [trispinosa].

Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.

- †*Myodochus* Leach., Brewster's Edinbg. Encyc., ix, p. , 1815.
 Leach, Brewster's Edinbg. Encyc., Am. Edn., viii, p. 711, 1832 (for
 Burmeister, Handb. d. Ent., ii, p. 325, 1835. [*tipuloides* De Geer].
 Herrich-Schaeffer, Wanz. Ins., viii, p. 94, 1848.
Leptocorise Latreille, Fam. Nat. du Règne Anim., p. 421, 1825 (not Latin).
 †*Leptocorixa* Berthold, Nat. Fam. des Tierrichs, p. 418, 1827.
 Kirkaldy, Entomol., xli, p. 123, 1908.
 Bergroth, Ent. Mitteil., ii, p. 12, 1913.
 Reuter, Ann. Soc. Ent. Belg., lvii, p. 78, 1913.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913. [*Myodochus* Burm.).
Stenocoris Burmeister, Handb. d. Ent., ii, pt. 2, p. 1010, 1838 (n.n. for
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 244, 275, 1853.
 Stål, Enum. Hemip., iii, p. 87, 1873. (Subgen. of *Leptocorisa*.)
 †*Leptocoris* Westwood, Intr. Mod. Classif. Ins., ii, p. 483, 1840.
Rhabdocoris Kolenati Melet. Ent., ii, p. 67, 1845.
 Stål, Enum. Hemip., iii, p. 86, 1873. (Subgen. of *Leptocorisa*.)
Erbula Stål, Enum. Hemip., iii, p. 86, 1873. (Subgen. of *Leptocorisa*.)

316. *Leptocorisa tipuloides* (De Geer)

- De Geer, Mémoires, iii, p. 354, pl. 35, fig. 18, 1773, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 273, 1778, *Cimex*.
 Retzius, Gen. et Spec. Ins., p. 89, 1783, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2194, 1788, *Cimex*.
 Latreille, Gen. Crust. Ins., iii, p. 126, 1807, *Myodocha*.
 Olivier, Encyc. Meth., viii, p. 106, 1811, *Myodochus*.
 Lamarek, Hist. Nat. Crust. Ins., iii, p. 497, 1816, *Myodocha*.
 Laporte, Essai Classif. Syst. Hémip., p. 33, 1832, *Myodocha*.
 Burmeister, Handb. d. Ent., ii, p. 325, 1835, *Myodochus*.
 Brullé, Hist. Nat. des Ins., ix, p. 389, 1835.
 Amyot and Serville, Hémip., p. 229, 1843.
 Dallas, List of Hemip., ii, p. 484, 1851.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 113, 1866.
 Stål, Enum. Hemip., i, p. 218, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 162, 1881.
 Distant, Proc. Zool. Soc. Lond. for 1901, pt. 1, p. 331.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
crudelis Westwood, Hope Cat., ii, p. 18, 1842.
 Localities: Fla., Texas. (Neotropical.)

TRIBE ALYDINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867, *Alydida*.
 Stål, Hemip. Fabr., i, p. 62, 1868, *Alydida*.
 Stål, Enum. Hemip., i, p. 209, 1870, Div. *Alydina*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Alydaria*.
 Stål, Enum. Hemip., iii, pp. 85, 89, 1873, Div. *Alydaria*.
 Distant, Biol. Centr. Am., Heter., i, p. 156, 1881, Div. *Alydaria*.
 Uhler, Check List, p. 12, 1886, *Alydina* (part).
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 105, 1894, *Alydidac*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 412, 1902, Div. *Alydaria*.
 Oshanin, Verz. Palae., Hemip., i, p. 213, 1906, Div. *Alydaria*.

Oshanin, Kat. Palae., Hemip., p. 24, 1912, Tribe *Alydaria*.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913, Div. *Alydaria*.

Genus **Hyalymenus** Am. & Serv.

Logotype *dentatus* (Fabr.)

Amyot and Serville, Hémip., p. 223, 1843.

Dallas, List of Hemip., ii, p. 467, 1852.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 243, 1853; Verz., p. 105, 1853.

Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.

Stål, Enum. Hemip., i, p. 210, 1870; iii, p. 90, 1873.

Distant, Biol. Centr. Am., Heter., i, p. 156, 1881.

[Fabr.]

Tivarbus Stål, Of. Vet. Akad. Forh., xvi, p. 459, 1859. (Logotype *sinuatus*

Galeottus Distant, Biol. Centr. Am., Heter., i, p. 459, 1893 (founded on a nymph.)

317. **Hyalymenus tarsatus** (Fabr.)

Fabricius, Syst. Rhyng., p. 250, 1803, *Alydus*.

Stål, Of. Vet. Akad. Forh., xvi, p. 460, 1859, *Tivarbus*.

Stål, Hemip. Fabr., i, p. 62, 1868.

Stål, Enum. Hemip., i, p. 212, 1870.

Walker, Cat. Heter., iv, p. 162, 1871, *Camptopus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 156, 1881.

Barber, Brookl. Inst. Sci. Bul., i, p. 270, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

atratus (Fabricius), Syst. Rhyng., p. 251, 1803, *Alydus*.

diversipes (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus*.

Dallas, List of Hemip., ii, p. 477, 1851, *Alydus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894, *Tivarbus*.

affinis (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus*.

Dallas, List of Hemip., ii, p. 477, 1851, *Alydus*.

obscurus (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus*.

sinuatus (Herrieh-Schaeffer), Wanz. Ins., viii, p. 98, fig. 865, 1846, *Alydus*.

recurvatus (Herrieh-Schaeffer), Wanz. Ins., viii, p. 98, fig. 866, 1846.

pallens (Dallas), List of Hemip., ii, p. 476, 1852, *Alydus*. [*Alydus*.

pectoralis (Stål), Rio Jan. Hemip., i, p. 34, 1860, *Camptopus*.

formicarius (Distant), Biol. Centr. Am., Heter., i, p. 459, pl. 39, fig. 23, [1893, *Galeottus*.

Localities: Texas, Ariz., Calif. (Neotropical.)

318. **Hyalymenus longispinus** Stål

Stål, Enum. Hemip., i, p. 213, 1870 (n.n. for *sinuatus* Guer.).

Banks, Cat. Neare. Heter., p. 74, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914.

†*sinuatus* (Guerin), Sagra Hist. de Cuba, Ins., p. 390, 1857, *Alydus*.

Localities: Fla. (West Indies.)

319. **Hyalymenus pulcher** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 235, 1854, *Alydus*.

Stål, Enum. Hemip., i, p. 211, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 156, pl. 15, fig. 8, 1881.

Banks, Cat. Heter., p. 74, 1910.

Localities: "Texas" (?) (Banks). (Neotropical.)

Genus **Megalotomus** Fieb.Logotype *limbatus* H. S. = *junceus* Scop.

Fieber, Europ. Hemip., pp. 58, 226, 1861.

Stål, Enum. Hemip., i, p. 214, 1870 (subgen. of *Alydus*.)

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.

Stål, Enum. Hemip., iii, pp. 90, 92, 1873.

Puton, Cat. Hémip. Palae., Edn. 3, p. 18, 1886.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 106, 1894.

Oshanin, Verz. Palae., Hemip., i, p. 217, 1906.

Oshanin, Kat. Palae., Hemip., p. 24, 1912. (Names *junceus* type.)*Huphus* Mulsant and Rey, Punaise de Fr., iii, p. 158, 1870. (Rye says [Aug., 1871, Zoolog. Record, 1871, p. 418.]320. **Megalotomus 5-spinosus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 323, 1824; Compl. Writ., ii, p. 247,

Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Alydus*.[*Lygacus*.]

Stål, Enum. Hemip., i, p. 214, 1870.

Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875, *Alydus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 283, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 56, 1885, *Alydus*.Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893, *Alydus*.

Van Duzee, Can. Ent., xl, p. 110, 1908.

Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910, *Alydus*.*cruentus* (Herrich-Schaeffer), Wanz. Ins., viii, p. 100, fig. 868, 1848,Dallas, List of Hemip., ii, p. 477, 1852, *Alydus*.[*Alydus*.]

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Fla., Ill.,

Wis., Colo., Utah, Calif., Wash., Vanc. Isd.

Genus **Burtinus** StålHaplotype *notatipennis* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 458, 459, 1859.

Stål, Enum. Hemip., i, p. 214, 1870 (as subgen. of *Alydus*).321. **Burtinus notatipennis** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 459, 1859.

Stål, Stet. Ent. Zeit., xxiii, p. 305, 1862.

Stål, Enum. Hemip., i, p. 214, 1870, *Alydus*.Walker, Cat. Heter., iv, p. 160, 1871, *Alydus*.Distant, Biol. Centr. Am., Heter., i, p. 373, 1893, *Alydus*.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914, *Alydus*.*femorals* (Distant), Biol. Centr. Am., Heter., i, p. 158, pl. 15, fig. 9, 1881,

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.

[*Alydus*.]

Localities: Texas. (Neotropical.)

Genus **Alydus** Fabr.Orthotype *calcaratus* Linn.

Fabricius, Syst. Rhyn., p. 248, 1803.

Le Peletier and Serville, Encyc. Méth., x, p. 61, 1825.

Latreille, in Cuvier, Regne Anim., Edn. 2, v, p. 197, 1829.

Schilling, Beit., i, p. 49, 1829.

- Fallén, Hemip. Suec., Cimic., p. 39, 1829.
 Curtis, Br. Ent., viii, pl. 369, 1831.
 Hahn, Wanz. Ins., i, p. 197, 1831.
 Laporte, Essai Classif. Syst. Hémip., p. 27, 1832.
 Herrich-Schaeffer, Nom. Ent., pp. 35, 43, 1835.
 Burmeister, Handb. d. Ent., ii, p. 323, 1835.
 Latreille in Cuvier, Anim. Kingd., Lond. Edn., iv, p. 163, 1836.
 Spinola, Essai sur les Hémip., p. 207, 1837 (1840).
 Blanchard, Hist. des Ins., Hémip., p. 125, 1840.
 Westwood, Intro. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
 Amyot and Serville, Hémip., p. 225, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 96, 1848.
 Spinola, Tavola Sinot., p. 40, 1850.
 Dallas, List of Hemip., ii, pp. 470, 477, 1852.
 Stål, Of. Vet. Akad. Forh., xvi, p. 458, 1859.
 Flor, Rhyng. Livl., i, p. 181, 1860.
 Fieber, Europ. Hemip., pp. 58, 225, 1861.
 Stål, Hemip. Afr., ii, p. 7, 1865.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.
 Stål, Enum. Hemip., i, p. 213, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.
 Stål, Enum. Hemip., iii, p. 90, 1873.
 Distant, Biol. Centr. Am., Heter., i, p. 157, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911. (Key.)
Alyde Latreille, Fam. Nat. Règ. Anim., p. 421, 1825. (French form.)

322. *Alydus pluto* Uhler.

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876; iii, p. 406, 1877.
 Gillette and Baker, Hemip. Colo., p. 19, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
 Localities: Kan., Colo., Utah., N. Mex., Texas, La., Calif., Wash., Idaho, Vanc. Isd.

323. *Alydus eurinus* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 324, 1824; Compl. Writ., ii, p. 247,
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 40, 1872. [*Lygaeus*.]
 Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876; iii, p. 406, 1877; iv, p.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878. [504, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 157, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.
 Van Duzee, Can. Ent., xxi, p. 2, 1889.
 Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
ater Dallas, List of Hemip., ii, p. 478, 1852.
 Stål, Enum. Hemip., i, p. 213, 1870.
 †*calcaratus* Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861.
 †*pluto* Provancher, Pet. Faune Ent. Can., iii, p. 56, 1885.

†*vicarius* (Provancher), Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus*.

§*urinus* Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Ohio, Mo., Neb., Kan., Dak., Colo., Utah, Texas, Calif.

324. *Alydus conspersus* Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 49, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.

Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Mich., Ia., Dak., Colo.

325. *Alydus scutellatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 108, 1903.

Cockerell, Univ. Colo. Studies, vii, p. 127, 1910.

Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.

Localities: Colo., N. Mex., Mont., Br. Col.

326. *Alydus rufescens* Barb.

Barb., Jl. N. Y. Ent. Soc., xix, pp. 29, 30, 1911.

Locality: Ariz.

327. *Alydus pilosulus* H. S.

Herrieh-Schaeffer, Wanz. Ins., viii, p. 101, fig. 870, 1848.

Dallas, List of Hemip., ii, p. 478, 1852.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893.

Bueno and Brimley, Ent. News, xviii, p. 440, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.

Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914.

[*vittinosus* Harris], Cat. Ins. Mass., 1833.

†*eurinus* Stål, Enum. Hemip., i, p. 213, 1870.

Localities: Mass., N. Y., N. J., Pa., Del., Md., N. C., Fla., Ill., Kans., Okl., Texas, Calif.

Genus *Tollius* Stål

Haplotype *curtulus* Stål

Stål, Enum. Hemip., i, p. 213, 1870; iii, p. 89, 1873. (Subgenus of *Alydus*.)

328. *Tollius curtulus* (Stål)

Stål, Freg. Eug. Resa, Ins., p. 234, 1859, *Alydus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.

Gillette and Baker, Hemip. Colo., p. 18, 1895.

Barber, Jl. N. Y. Ent. Soc., xix, p. 31, 1911.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.

Localities: N. Y., Colo., Utah, Calif.

329. *Tollius setosus* (Van D.)

Van Duzee, Ent. News, xvii, p. 386, 1906, *Alydus*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911, *Alydus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.

Localities: Mont., Utah, Ariz., Calif.

Genus *Stachyocnemus* Stål

Haplotype *apicalis* Dall.

Stål, Enum. Hemip., i, p. 215, 1870; iii, p. 91, 1873.

330. *Stachyocnemus apicalis* (Dall.)

Dallas, List of Hemip., ii, p. 479, 1852, *Alydus*.

Stål, Enum. Hemip., i, p. 215, 1870.

Uhler, Hayden's Surv. Terr. for 1871, p. 402, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.

Localities: N. J., Fla., Texas, Dak., Calif.

Subfamily PSEUDOPHLOEINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 535, 1867, *Pseudophloeida*.

Stål, Enum. Hemip., i, p. 219, 1870, *Pseudophlocina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 50, 52, 1872, *Pseudophlocina*.

Stål, Enum. Hemip., iii, pp. 34, 81, 1873, *Pseudophloeina*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876, *Pseudophlocina*.

Distant, Biol. Centr. Am., Heter., i, p. 164, 1881, *Pseudophlocinae*.

Puton, Cat. Hémip. Palae., Edn. 3, p. 17, 1886, Div. *Pseudophlocaria*.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 91, 1894 (Subfam.),

[*Pseudophloeidae*].

Distant, Fauna Br. Ind., Rhyng., i, p. 401, 1902, *Pseudophlocinae*.

Oshanin, Verz. Palae., Hemip., i, p. 197, 1906, *Pseudophlocina*.

Banks, Cat. Neare. Hemip., p. 73, 1910, *Pseudophlocini*.

Oshanin, Kat. Palae. Hemip., p. 22, 1912, *Pseudophlocinae*.

Arenocorinae Bergroth, Mém. Soc. Ent. Belg., xxii, p. 155, 1913.

Genus *Ceraleptus* Costa

Logotype *gracilicornis* H. S.

Costa, Cimic. Reg. Neap., Cent., ii, p. 11, 1847.

Dallas, List of Hemip., ii, p. 523, 1852.

Fieber, Europ. Hemip., pp. 57, 219, 1861.

Stål, Enum. Hemip., i, p. 219, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 53, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 165, 1881.

331. *Ceraleptus pacificus* Barber

Barber, Jl. N. Y. Ent. Soc., xxii, p. 167, 1914.

Localities: Calif., Ore., Wash., Vane. Isl.

332. *Ceraleptus americanus* Stål

Stål, Enum. Hemip., i, p. 219, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 165, 1881.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 520, 1914.

Localities: Fla., Utah, Texas, Ariz., Calif. (Mexico.)

Genus **Coriomeris** Westw.

Logotype *denticulatus* Scop.

Westwood, Hope Cat., ii, p. 6, 1842 (n.n. for *Coreus* Burm. and *Merocoris* Hahn).

Kirkaldy, Entomol., xxxiii, p. 240, 1900. (Names *denticulatus* type.)

Kirkaldy, Entomol. xxxvi, p. 216, 1903.

Oshanin, Kat. Palae. Hemip., p. 23, 1912. (Names *hirticornis* Fabr. type.)

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 157, 1913. [Oshanin].

Van Duzee, Check List Hemip., p. 14, 1916 (type *scabricornis* Panz., after

†*Coreus* Laporte, Essai Classif. Syst. Hémip., p. 43, 1832 (for *hirticornis*

Burmeister, Handb. d. Ent., ii, p. 309, 1835. [Fabr.])

Amyot and Serville, Hémip., p. 237, 1843.

Herrieh-Schaeffer, Wanz. Ins., ix, pp. 238, 255, 1853 (part).

Flor, Rhyng. Livl., i, p. 174, 1860.

Fieber, Europ. Hemip., pp. 57, 220, 1861.

Walker, Cat. Heter., v, p. 7, 1872.

Puton, Cat. Hémip. Palae., Edn. 3, p. 17, 1886.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 95, 1894.

Oshanin, Verz. Palae. Hemip., i, p. 203, 1906. [*dentator* Fabr.]

||*Merocoris* Hahn, Wanz. Ins., ii, p. 105, 1834 (for *denticulata* Scop. and

Blanchard, Hist. des Ins., Hémip., p. 118, 1840. (Div. of *Coreus*.)

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.

Dasycoris Dallas, List of Hemip., ii, p. 519, 1852 (n.n. for *Merocoris* Hahn.)

Dohrn, Cat. Hemip., p. 31, 1859.

Stål, Enum. Hemip., i, p. 219, 1870.

Uhler, Check List, p. 13, 1886.

Banks, Cat. Neare. Hemip., p. 73, 1910.

333. **Coriomeris humilis** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872, *Dasycoris*.

Uhler, Wheeler's Surv. 100th Merid., v, p. 834, 1875, *Dasycoris*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 407, 1877, *Dasycoris*.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Dasycoris*.

Gillette and Baker, Hemip. Colo., p. 19, 1895, *Dasycoris*.

†*pilicornis* (Uhler), Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872,

Banks, Cat. Neare. Hemip., p. 73, 1910, *Dasycoris*. [*Dasycoris*.]

Localities: Kan., Colo., Texas, Ariz., Calif., Vanc. Isd.

334. **Coriomeris nigricornis** (Stål)

Stål, Enum. Hemip., i, p. 219, 1870, *Dasycoris*.

Distant, Biol. Centr. Am., Heter., i, p. 164, pl. 15, fig. 12, 1881, *Dasycoris*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894, *Dasycoris*.

Gillette and Baker, Hemip. Colo., p. 19, 1895, *Dasycoris*.

Banks, Cat. Neare. Hemip., p. 73, 1910, *Dasycoris*.

Localities: Colo. (Mexico.)

Subfamily **CORIZINAE** (Mayr)

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 121, 1866, *Corizida*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 50, 1872, *Corizina*.

- Stål, Enum. Hemip., iii, pp. 34, 97, 1873, *Corizina*.
 Distant, Biol. Centr. Am., Heter., i, p. 165, 1881, *Corizinae*.
 Puton, Cat. Hémip. Palae., p. 18, 1886, Tribe *Corizini*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 114, 1894, *Corizidae*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 416, 1902.
 Oshanin, Verz. Palae. Hemip., i, p. 218, 1906, *Corizina*.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, pp. 49, 59, 1912, Fam.
 Oshanin, Cat. Palae. Hemip., p. 25, 1912, *Corizina*. [Corizidae.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914, *Corizidae*.
Rhopalides Amyot and Serville, Hémip., pp. xxxvi, 243, 1843.
 Dallas, List of Hemip., ii, p. 520, 1852, Fam. *Rhopalidae* (in part).
 Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862, *Rhopalida*.
 Stål, Hemip. Afr., ii, pp. 1, 111, 1865, *Rhopalida*.
 Stål, Enum. Hemip., i, p. 219, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876.
 Uhler, Check List, p. 13, 1886.
 Banks, Cat. Neare. Hemip., p. 71, 1910, *Rhopalini*.

TRIBE *HARMOSTINI* (Stål)

- Stål, Enum. Hemip., iii, p. 97, 1873, Div. *Harmostaria*.
 Distant, Biol. Centr. Am., Heter., i, p. 166, 1881, Div. *Harmostaria*.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913, Div. *Harmostaria*.

Genus *Harmostes* Burm.

Haplotype *dorsalis* Burm.

- Burmeister, Handb. d. Ent., ii, p. 307, 1835.
 Dallas, List of Hemip., ii, p. 520, 1852.
 Herrich-Schaeffer, Wanz. Ins., ix., p. 270, 1853; Verz., p. 101, 1853.
 Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
 Stål, Enum. Hemip., i, p. 219, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 166, 1881.

335. *Harmostes serratus* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 75, 1794, *Acanthia*.
 Fabricius, Syst. Rhyng., p. 123, 1803, *Syrtis*.
 Stål, Hemip. Fabr., i, p. 67, 1868.
 Stål, Enum. Hemip., i, p. 220, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 166, pl. 15, fig. 13, 1881.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.
 Uhler, Proc. Zool. Soc. Lond., for 1894, p. 180.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
gravidator (Fabricius), Ent. Syst., iv, p. 133, 1794, *Coreus*.
 Fabricius, Syst. Rhyng., p. 199, 1803, *Coreus*.
perpunctatus Dallas, List of Hemip., ii, p. 521, 1852.
 Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.
 Localities: Texas, Fla.

336. *Harmostes reflexulus* (Say)

- Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p.
 Stål, Enum. Hemip., i, p. 220, 1870. [323, *Syromastes*.

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877; iv, p. 371, 1893. [505, 1878.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
 Gillette and Baker, Hemip. Colo., p. 20, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
vireseens Dallas, List of Hemip., ii, p. 520, 1852.
 Gillette and Baker, Hemip. Colo., p. 20, 1895.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, pp. 151, 178, 1906.
costalis, Herrich-Schaeffer, Wanz. Ins., ix, p. 270, fig. 992, 1853.
brucei Bergroth, Ent. News, xxiv, p. 266, 1913.
 Localities: Me., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ga.,
 Fla., Ind., Ill., Wisc., Minn., Dak., Neb., Kan., Colo., Utah,
 Texas, Ariz., Calif., Idaho.

337. **Harmostes subrufus** Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 167, pl. 15, fig. 16, 1881.
 Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
 Localities: Ariz. (Guatemala.)

338. **Harmostes(?) obliquus** (Say)

- Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 769; Compl. Writ., i, p. [324, *Syromastes*.
 Locality: "U. S."

339. **Harmostes fraterculus** (Say)

- Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p. Stål, Enum. Hemip., i, p. 221, 1870. [324, *Syromastes*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 168, pl. 15, fig. 18, 1881.
 Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
 Localities: N. J., Md., Va., Ga., Ind., Ill., Okl., Texas, Ariz., Calif.
 (Neotropical.)

340. **Harmostes affinis** Dall.

- Dallas, List of Hemip., ii, p. 522, 1852.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914.
 Localities: Fla., Texas. (Mexico.)

Genus **Aufeius** Stål

Haplotype *impressicollis* Stål

- Stål, Enum. Hemip., i, p. 221, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 168, 1881.

341. **Aufeius impressicollis** Stål

- Stål, Enum. Hemip., i, p. 222, 1870.
 Uhler, Hayden's Survey Terr., Rept. for 1871, p. 403, 1872.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.
 ?Distant, Biol. Centr. Am., Heter., i, p. 169, pl. 15, fig. 20, 1881.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
propinquus Distant, Biol. Centr. Am., Heter., i, p. 168, pl. 15, fig. 19, 1881.
 Gillette and Baker, Hemip. Colo., p. 19, 1895.
 Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.
 Localities: Dak., Kan., Colo., Texas, Calif., Ariz. (Mexico.)

Genus **Xenogenus** Berg
 Haplotype *picturatum* Berg

- Berg, Hemip. Argent., Add., p. 45, 1884.
 Distant, Biol. Centr. Am., Heter., i, p. 461, 1893.

342. **Xenogenus extensum** Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 461, pl. 39, fig. 26, 1893.
 Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
 Localities: Ariz. (Mexico.)

TRIBE CORIZINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Corizaria*.
 Stål, Enum. Hemip., iii, p. 97, 1873, Div. *Corizaria*.
 Distant, Biol. Centr. Am., Heter., i, p. 169, 1881.
 Distant, Fauna Br. Ind., Rhyng., i, p. 416, 1902, Div. *Coryzaria*.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913, Div. *Coryzaria*.

Genus **Corizus** Fall.
 Logotype *hyoscyami* (Linn.)

- Fallén, Spec. Nova Hemip. Disp., p. 8, 1814.
 Fallén, Hemip. Suec., Cimic., p. 40, 1829.
 Burmeister, Handb. d. Ent., ii, pp. 302, 306, 1835.
 Brullé, Hist. des Ins., ix, p. 358, 1835. (Names *hyoscyami* type.)
 Herrieh-Schaeffer, Nomen. Ent., pp. 35, 42, 1835.
 Spinola, Essai sur les Hémipt., p. 224, 1837 (1840).
 Blanchard, Hist. des Ins., Hémipt., p. 116, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
 Herrieh-Schaeffer, Wanz. Ins., vi, p. 1, 1842.
 Gorski, Anal. Ent., i, p. 157, 1852.
 Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 75, 1859.
 Flor, Rhyng. Livl., i, p. 187, 1860.
 Fieber, Europ. Hemip., pp. 60, 234, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
 Stål, Hemip. Afr., ii, pp. 111, 114, 1865.
 Mayr, Reise Freg. Novara, Zool., ii, p. 121, 1866.
 Stål, Enum. Hemip., i, p. 222, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872.
 Berg, Hemip. Argent., p. 93, 1879.
 Distant, Biol. Centr. Am., Heter., i, p. 169, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 59, 1885, *Corisus*.
 Hambleton, Ann. Ent. Soc. Am., i, p. 133, 1908.
 Baker, Can. Ent., xl, p. 241, 1908. [type.]
 Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *subrufus* Gmel. pseudo-

[*Kleidocerys* Stephens, MS], Syst. Cat. Brit. Ins., p. 342, 1829 (part).

Rhopalus Schilling, Ent. Beit., p. 50, 1829.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. (Names
[*capitatus* Wolff. type.)

Amyot and Serville, Hémip., p. 245, 1843 (for *capitatus* Fabr.)

Dallas, List of Hemip., ii, p. 525, 1852.

Walker, Cat. Heter., v, p. 18, 1872.

Subgenus **Liorhyssus** Stål

Logotype *hyalinus* (Fabr.)

Stål, Enum. Hemip., i, p. 222, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872.

Stål, Enum. Hemip., iii, pp. 97, 98, 1873.

Oshanin, Verz. Palae. Hemip., i, p. 220, 1906.

Baker, Can. Ent., xl, p. 243, 1908.

Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *hyalinus* type.)

Colobatus Mulsant and Rey, Punaise de Fr., iii, p. 137, 1870.

343. **Corizus hyalinus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 168, 1794, *Lygacus*.

Fabricius, Syst. Rhyng., p. 201, 1803, *Coreus*.

Stål, Hemip. Fabr., i, p. 68, 1868.

Stål, Of. Vet. Akad. Forh., xxvii, p. 659, 1870.

Stål, Enum. Hemip., i, p. 222, 1870, *Liorhyssus*: iii, p. 98, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.

Distant, Biol. Cent. Am., Heter., i, p. 169, pl. 16, fig. 7, 1882.

Reuter, Rev. Synon., p. 171, 1888, *Rhopalus*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 369, 1893.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 180.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.

Gillette and Baker, Hemip. Colo., p. 20, 1895.

Uhler, Proc. U. S. Nat. Mus., xxvii, p. 352, 1904.

Oshanin, Verz. Palae. Hemip., i, p. 220, 1906, *Liorhyssus*.

Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 146, 1907, *Rhopalus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.

Hambleton, Ann. Ent. Soc. Am., i, p. 136, 1908.

Baker, Can. Ent., xl, p. 243, 1908, *Liorhyssus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.

gracilis Herrich-Schaeffer, in Panzer, Fauna Germ., -, p. 127, 1835.

Herrich-Schaeffer, Nomen. Ent., pp. 42, 75, 1835.

Herrich-Schaeffer, Wanz. Ins., vi, p. 1, pl. 181, fig. C, 1842.

Gorski, Anal. Ent., i, p. 163, 1852.

Dallas, List of Hemip., ii, p. 528, 1852, *Rhopalus*.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 88, 1859.

Mulsant and Rey, Punaise de Fr., iii, p. 137, 1870, *Colobatus*.

truncatus Rambaur, Fauna Andal., ii, p. 144, 1842.

Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus*.

Stål, Hemip. Afr., ii, p. 117, 1865.

variegatus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 89, 1859.

spathula Rey, Échange, iii, No. 36, p. 2, 1887.

a. var. **sanguineus** (Costa)

Costa, Cimic. Régne Neap., iii, p. 14, pl. 6, fig. 8, 1852, *Rhopalus*.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 104, 1859.

Dohrn, Stet. Ent. Zeit., xxi, p. 107, pl. 1, fig. 7, 1860.

Mulsant and Rey, Punaise de Fr., iii, p. 140, 1870.

siculus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 91, 1859.

victoris Mulsant and Rey, Punaise de Fr., iii, p. 123, 1870, *Rhopalus*.

b. var. **nigrinus** Puton

Puton, Synop. Heter. Fr., ii, p. 117, 1881.

c. var. **marginatus** Jökl.

Jakowlef, Horae. Soc. Ent. Ross., vi, p. 10, 1871.

d. var. **dilatipennis** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 89, 1859.

e. var. **rubricatus** Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlii, p. 276, 1900, *Liorhyssus*.

[The varieties have not been worked out in America.]

Localities: Fla., Miss., Ohio, Iowa, Dak., Neb., Colo., Utah,
Texas, N. Mex., Ariz., Calif. (Europe, Asia, Africa, America.)

344. **Corizus viridicatus** Uhler

Uhler, Hayden's Surv. Terr., Report for 1871, p. 404, 1872.

Horvath, Ann. Mus. Natl. Hung., vi, p. 556, 1908.

Hambleton, Ann. Ent. Soc. Am., i, p. 138, 1908.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.

†*hyalinus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 407, 1877 (as variety).

Localities: D. C., Dak., Neb., Colo., Utah, Wyom., N. Mex., Calif.

Subgenus **Stictopleurus** StålLogotype *crassicornis* (Linn.)

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872 (as genus).

Stål, Enum. Hemip., iii, p. 98, 1873 (as genus).

Reuter, Berl. Ent. Zeit., xxix, p. 42, 1885.

Puton, Cat. Hémip. Palae., Edn. 3, p. 18, 1886.

Oshanin, Verz. Palae. Hemip., i, p. 226, 1906 (as genus).

Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *crassicornis* type).

†*Corizus* Baker, Can. Ent., xl, p. 242, 1908.

345. **Corizus crassicornis** (Linn.)

Linnaeus, Syst. Nat., Edn. 10, i, p. 448, 1758, *Cimex*.

Linnaeus, Fauna Suec., Rev. Edn., p. 254, No. 952, 1761, *Cimex*.

Linnaeus, Syst. Nat., Edn. 12, ii, p. 729, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 723, 1775, *Cimex*.

Goeze, Ent. Beitr., ii, p. 217, 1778, *Cimex*.

Wolff, Leon. Cimic., iv, p. 146, fig. 140, 1804, *Lygaeus*.

Panzer, Fauna Germ., pt. 92, fig. 18, 1805, *Corcus*.

Herrieh-Schaeffer, Nomen. Ent., p. 42, 1835.

Burmeister, Handb. d. Ent., ii, p. 306, 1835.

Hahn, Wanz. Ins., iii, p. 2, fig. 227, 1835, *Rhopalus*.

Spinola, Essai sur les Hémip., p. 249, 1837, *Rhopalus*.

Blanchard, Hist. des Ins., Hémip., p. 117, 1840.

- Dallas, List of Hemip., ii, p. 527, 1852, *Rhopalus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 79, 1859.
 Flor, Rhyng. Livl., i, p. 190, 1860.
 Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus*.
 Stål, Of. Vet. Akad. Forh., xix, p. 208, 1862, subgen. *Rhopalus*.
 Douglas and Scott, Brit. Hemip., p. 131, 1865.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872, *Stictopleurus*.
 Walker, Cat. Heter., v, p. 19, 1872, *Rhopalus*.
 Reuter, Rev. Synon., p. 170, 1888, *Rhopalus*.
 Rey, Revue d'Ent., vii, p. 96, 1888.
 Oshanin, Verz. Palae. Hemip., i, p. 226, 1906, *Stictopleurus*.
 Van Duzee, Can. Ent., xl, p. 110, 1908.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 556, 1908.
 Hambleton, Ann. Ent. Soc. Am., i, p. 137, 1908.
 alatus (Muller) Zool. Danic. Prod., p. 106, 1776, *Cimex*.
 punctato-nervosus (Goeze), Ent. Beytr., ii, p. 265, 1778, *Cimex*.
 sabulosus (Fourcroy), Ent. Paris., i, p. 202, 1785, *Cimex*.
 Geoffroy, Hist. Abr. des Ins., i, p. 448, 1762 (without name).
 †*magnicornis* (Fallén), Monog. Cimic., p. 59, 1807, *Coreus*.
 cellulatus Brullé, Exp. de Moreé, iii, p. 72, 1832.
 panzeri Dufour, Mém. Acad. Sci., iv, p. 166, 1833 (n.n. for *crassicornis*).
 punctiventris (Dallas), List of Hemip., ii, p. 526, 1852, *Rhopalus*. [Panz.]
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iv, p. 505, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 60, 1885.
 Van Duzee, Can. Ent., xxi, p. 2, 1889.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 370, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
 Gillette and Baker, Hemip. Colo., p. 21, 1895.
 Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
 noeoboracensis Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 97, 1859.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1904.
 Baker, Can. Ent., xl, p. 242, 1908.
 borcalis Uhler, Proc. Acad. Nat. Sci. Phila., xii, p. 284, 1862.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.
- a. var. **maculatus** (Fieb.)
 Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus*.
 Rey, Revue d'Ent., vii, p. 97, 1888.
- b. var. **pictus** Horv.
 Horvath, Sehn. Beitr. z. Kennt. d. Cauc. Länd., p. 76, 1879.
- c. var. **maculicollis** Rey.
 Rey, Revue d'Ent., vii, p. 97, 1888.
- d. var. **umbrinus** Rey
 Rey, Revue d'Ent., vii, p. 98, 1888.
- e. var. **griseus** (Fieb.)
 Fieber, Europ. Hemip., p. 233, 1861, *Rhopalus*.
 Rey, Revue d'Ent., vii, p. 98, 1888.
- f. var. **pallidus** Baker.
 Baker, Can. Ent., xl, p. 243, 1908.

g. var. **intermedia** Baker.

Baker, Can. Ent., xl, p. 243, 1908.

h. var. **occidentalis** Baker.

Baker, Can. Ent., xl, p. 243, 1908.

i. var. **plutonius** Baker.

Baker, Can. Ent., xl, p. 243, 1908.

Localities: Quebec, N. H., Ont., N. Y., N. J., Pa., Ohio, Dak., Neb.,
Wyo., Colo., Utah, Mont., Texas, Ariz., Calif., Oregon, Br. Am.
(Mexico, Palaearctic.)

Subgenus **Niesthrea** Spin.Haplotype *sidæ* (Fabr.)

Spinola, Essai sur les Hémip., p. 245, 1837 (1840).

Stål, Enum. Hemip., i, p. 223, 1870.

Baker, Can. Ent., xl, p. 243, 1908.

346. **Corizus sidæ** (Fabr.)Fabricius, Ent. Syst., iv, p. 169, 1794, *Lygacus*.Fabricius, Syst. Rhyng., p. 201, 1803, *Coreus*.Wolff, Icon. Cimic., v, p. 193, fig. 187, 1811, *Coreus*.

Spinola, Essai sur les Hémip., p. 245, 1837 (1840).

Dallas, List of Hemip., ii, p. 527, 1852, *Rhopalus*.

Guerin, Sagra, Hist. de Cuba, Ins., p. 385, 1857.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 95, 1859.

Stål, Hemip. Fabr., i, p. 69, 1868.

Stål, Enum. Hemip., i, p. 223, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 181.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.

Horvath, Ann. Mus. Natl. Hung., vi, p. 557, 1908, *Corizus*.

Hambleton, Ann. Ent. Soc. Am., i, p. 142, 1908.

Baker, Can. Ent., xl, p. 243, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 132, 1911 (egg).

Bergroth, Mém. Soc. Ent. Belg., p. 163, 1913.

anticus (Signoret), Ann. Soc. Ent. Fr., Ser. 3, vii, p. 99, 1859, *Corizus*.*a.* var. **pictipes** (Stål)Stål, Freg. Eugen. Resa, Ins., p. 239, 1859, *Rhopalus*.

Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.

Stål, Enum. Hemip., i, p. 223, 1870.

Berg, Hemip. Argent., p. 93, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 171, pl. 15, fig. 24, 1882.

Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.

Baker, Can. Ent., xl, p. 244, 1908.

ventralis Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 92, 1859.*mexicanus* Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 95, 1859.*proximus* Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 96, 1859.*nebulosus* Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 98, 1859.*luteolus* Distant, Biol. Centr. Am., Heter., i, pl. 15, fig. 25, 1881.

Localities: Md., Ga., Fla., Texas, Kan., Okl., Ariz. (Neotropical.)

Subgenus *Arhyssus* StålLogotype *bohemani* Sign.

Stål, Enum. Hemip., i, p. 223, 1870.

Baker, Can. Ent., xl, p. 244, 1908.

347. *Corizus validus* Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 370, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.

Gillette and Baker, Hemip. Colo., p. 21, 1895.

Hambleton, Ann. Ent. Soc. Am., i, p. 141, 1908.

Localities: Wyom., Utah, Colo., Ariz., Calif.

348. *Corizus lateralis* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 320, 1825; Compl. Writ., ii, p. 245,

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 97, 1859.

[*Coreus*.]

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 404, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p. 407, 1877; iv, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878. [505, 1878.]

Distant, Biol. Centr. Am., Heter., i, p. 170, pl. 16, fig. 9, 1882.

Uhler, Proc. Ent. Soc. Wash., ii, p. 369, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.

Gillette and Baker, Hemip. Colo., p. 20, 1895.

Hambleton, Ann. Ent. Soc. Am., i, p. 140, 1908.

Baker, Can. Ent., xl, p. 244, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.

Hambleton, Ann. Ent. Soc. Am., ii, p. 272, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.

punctipennis (Dallas), List of Hemip., ii, p. 526, 1852, *Rhopalus*.*nigristerium* Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 100, 1859.a. var. *roseus* Baker.

Baker, Can. Ent., xl, p. 244, 1908.

Localities: N. H., Mass., N. Y., N. J., Pa., D. C., Fla., Kan., Ill.,

Mo., Colo., Texas, Ariz. (Mexico.)

349. *Corizus bohemani* Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 86, 1859.

Hambleton, Ann. Ent. Soc. Am., i, p. 143, 1908.

Baker, Can. Ent., xl, p. 244, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.

†*punctiventris* Stål, Enum. Hemip., i, p. 223, 1870.

Baker, Can. Ent., xl, p. 244, 1908.

†*nigristerium* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p.

Van Duzee, Can. Ent., xxi, p. 2, 1889.

[408, 1877.]

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.

Gillette and Baker, Hemip. Colo., p. 21, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 27, 1910.

†*lateralis* Provancher, Pet. Faune Ent. Can., iii, p. 60, 1885.

Localities: Quebec, Ont., N. H., N. Y., Pa., N. J., Md., D. C.,

Va., N. C., Fla., Texas, Ariz., Calif.

350. *Corizus scutatus* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 239, 1859, *Rhopalus*.

Stål, Enum. Hemip., i, p. 224, 1870.

Hambleton, Ann. Ent. Soc. Am., i, p. 139, 1908.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 231, 1916.

jactatus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 81, 1859.

Localities: Wyom., Utah, Calif., Ore.

351. *Corizus punctatus* Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 81, 1859.

Distant, Biol. Centr. Am., Heter., i, p. 170, pl. 16, fig. 8, 1882.

Hambleton, Ann. Ent. Soc. Am., i, p. 144, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.

Localities: Fla., Texas, Ariz. (Neotropical.)

352. *Corizus indentatus* Hambl.

Hambleton, Ann. Ent. Soc. Am., i, p. 139, 1908.

Localities: Colo., Wyo., Calif., Wash., Ore.

353. *Corizus tuberculatus* Hambl.

Hambleton, Ann. Ent. Soc. Am., i, p. 140, 1908.

Locality: Wash.

354. *Corizus parvicornis* Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 101, 1859.

Hambleton, Ann. Ent. Soc. Am., i, p. 143, 1908.

Localities: Texas, Calif. (Mexico.)

355. *Corizus hirtus* Bueno

Bueno, Ent. News, xxiii, p. 217, 1912.

Locality: N. Y.

TRIBE LEPTOCORINI Van D.

Van Duzee, Can. Ent., xlv, p. 379, 1914.

Scrinetharia Stål, Enum. Hemip., iii, p. 97, 1873 (as division).

Berg, Hemip. Argent., p. 95, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 172, 1882 (as division).

Distant, Fauna Br. Ind., Rhyn., i, p. 418, 1902.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 164, 1913 (as division).

Genus *Leptocoris* Hahn

Haplotype *rufus* Hahn = *abdominalis* Fabr.

Hahn, Wanz. Ins., i, p. 200, 1831.

Burmeister, Handb. d. Ent., ii, p. 305, 1835.

Stål, Enum. Hemip., i, p. 226, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 172, 1882.

Uhler, Check List, p. 13, 1886.

Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.

Scrinetha Spinola, Essai sur les Hemip., p. 247, 1837 (1840) (n.n. for

Spinola, Tavola Sinot., p. 37, 1850. [*Leptocoris* Hahn.)

Dallas, List of Hemip., ii, p. 459, 1852.

Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.

- Stål, Hemip. Afr., ii, p. 112, 1865.
 Stål, Enum. Hemip., iii, pp. 98, 99, 1873.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 122, 1894.
 Distant, Fauna Br. Ind., Rhyn., i, p. 418, 1902. (Names *abdominalis*
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 164, 1913. [Fabr. type.)
Lygeomorphus Blanchard, Hist. des Ins., Hémip., p. 116, 1840 (n.n. for
 [*Leptocoris* Hahn.)
Pyrrhotes Westwood, Hope Cat., ii, p. 6, 1842 (n.n. for *Leptocoris* Hahn.)
Tynotoma Amyot and Serville, Hémip., p. 220, 1843. (Haplotype *vittata*
 [Am. & Serv.)
Boisea Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 123, 1910 (as subgen. of
 [*Leptocoris* Hahn; *Orthotoma vittata*.)

356. *Leptocoris trivittatus* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 322, 1825; Compl. Writ., ii, p. 246,
 Stål, Enum. Hemip., i, p. 226, 1870. [*Lygaeus*.
 Uhler, Hayden's Surv. Terr. for 1871, p. 404, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p. 408, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.
 Distant, Biol. Centr. Am. Heter., i, p. 172, 1882.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
 Gillette and Baker, Hemip. Colo., p. 21, 1895.
?vittata Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 123, 1910.
 Localities: Mo., Kan., Colo., Utah, Ariz., Calif.

Genus *Jadera* Stål

Logotype *coturnix* Burm. = *sanguinolenta* Fabr.

- Stål, Rio Jan. Hemip., ii, p. 59, 1862.
 Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
 Stål, Enum. Hemip., i, p. 226, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 172, 1882.
 †*Pyrrhotes* Bergroth, Wien. Ent. Zeit., xxv, p. 9, 1906.
 Banks, Cat. Neare. Hemip., p. 73, 1910.
 Bergroth, Mém. Soc. Ent. Belg., xxii, p. 165, 1913.

357. *Jadera haematoloma* (H. S.)

- Herrich-Schaeffer, Wanz. Ins., viii, p. 103, fig. 873, 1848, *Leptocoris*.
 Dallas, List of Hemip., ii, p. 463, 1852, *Serinettha*.
 Guérin, Sagra, Hist de Cuba, Ins., p. 393, 1857, *Lygaeus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.
 Stål, Enum. Hemip., i, p. 226, 1870.
 Uhler, Hayden's Surv. Terr., for 1871, p. 404, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 173, pl. 17, fig. 5, 1882.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 540, 1901.
 Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914. (*Pyrrhotes*.)
marginalis (Walker), Cat. Heter., v, p. 45, 1872, *Lygaeus*.
 Localities: Fla., Kan., Colo., Texas, Ariz., Calif.

358. *Jadera sanguinolenta* (Fabr.)

- Fabricius, Syst. Ent., p. 721, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 365, 1781, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 300, 1787, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 158, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 224, 1803, *Lygaeus*.
 Stål, Hemip. Fabr., i, p. 67, 1868, *Serinetha*.
 Stål, Enum. Hemip., i, p. 227, 1870.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 429, 1901.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
cruentus (Fabricius), Mantissa Ins., ii, p. 301, 1787, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 159, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 225, 1803.
coturnix (Burmeister), Handb. d. Ent., ii, p. 305, 1835, *Leptocoris*.
 Dallas, List of Hemip., ii, p. 462, 1852, *Serinetha*.
 Guérin, Sagra, Hist. de Cuba, Ins., p. 392, 1857, *Lygaeus*.
 Stål, Rio Jan. Hemip., ii, p. 59, 1862 (misspelled *Cothurnix*).
 Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862 (misspelled *Cothurnix*).
bicolor (Westwood), Hope Cat., ii, p. 26, 1842, *Pyrrhotes*.
cinerea (Amyot and Serville), Hémip., p. 244, 1843, *Therapha*.
anticus (Walker), Cat. Heter., v, p. 46, 1872, *Lygaeus* (examples c-n only).
rufoculis (Kirby), Jl. Linn. Soc. Zool., xx, p. 546, 1890 *Lygaeus*.
 Localities: Fla. (Neotropical.)

359. *Jadera aeola* (Dall.)

- Dallas, List of Hemip., ii, p. 463, 1852, *Serinetha*.
 Stål, Enum. Hemip., i, p. 227, 1870.
 Distant, Biol. Cent. Am., Heter., i, p. 173, pl. 15, fig. 22, 1882.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 429, 1901.
 Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
conspersus (Walker), Cat. Heter., v, p. 47, 1872, *Lygaeus*.
 Localities: Texas. (Neotropical.)

SERIES PHLOEOBIOTICA Reut.

- Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 49, 1912.
 Oshanin, Kat. Palae. Hemip., p. 46, 1912.

Family ARADIDAE (Spin.)

- Spinola, Essai sur les Hémip., p. 157, 1837 (1840), *Aradites*.
 Costa, Cimic. Neap., Cent., ii, p. 15, 1843, *Aradini*.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 111, 1844, *Aradites*.
 Spinola, Tavola Sinot., p. 44, 1850, *Aradoideae*.
 Fieber, Genera Hydroc., p. 9, 1851, *Aradoidea*.
 Flor, Rhyn. Livl., i, p. 375, 1860, *Aradoidea*.
 Fieber, Europ. Hemip., pp. 24, 34, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 437, 1862, *Aradida*.
 Stål, Hemip. Afr., iii, p. 30, 1865, *Aradida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 671, 1870, *Aradina*.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 48, 1872.
 Stål, Enum. Hemip., iii, p. 135, 1873, *Aradidae*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
 Berg, Hemip. Argent., p. 138, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 283, 1884.
 Uhler, Check List, p. 22, 1886.
 Puton, Cat. Hémip. Palae., Edn. 3, p. 34, 1886, *Aradides*.
 Provancher, Pet. Faune Ent. Can., iii, p. 163, 1887.
 Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1902.
 Oshanin, Verz. Palae. Hemip., i, p. 463, 1908.
 Kirkaldy, Can. Ent., xl, p. 360, 1908.
 Banks, Cat. Neare. Hemip., p. 52, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 15, 1911.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 49, 1912,
 [*Aradoidea* (as superfamily)].
 Oshanin, Kat. Palae. Hemip., p. 46, 1912, *Aradoidae* (as superfamily).
Corticocolae, Amyot and Serville, Hemip., p. xli, 1843.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 139, 1853, *Corticicolae*.
 Dohrn, Cat. Hemip., p. 43, 1859, *Corticicolae*.
 Stål, Rio Jan. Hemip., i, p. 66, 1860, *Corticicolae*.
 Douglas and Scott, Br. Hemip., pp. 25, 267, 1865, *Corticicolina*.
 Walker, Cat. Heter., vii, p. 6, 1873, *Corticicolae*.

Subfamily ARADINAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xli, 306, 1843, *Aradides*.
 Stål, Hemip. Afr., iii, p. 30, 1865, *Aradina*.
 Douglas and Scott, Br. Hemip., pp. 26, 269, 1865, *Aradidae* (as family).
 Stål, Of. Vet. Akad. Forh., xxvii, p. 672, 1870, *Aradina*.
 Reuter, Of. Vet. Akad. Forh., xxix, p. 48, 1872, *Aradina*.
 Stål, Enum. Hemip., iii, p. 135, 1873, *Aradida*.
 Walker, Cat. Heter., vii, pp. 6, 7, 1873, *Aradidae*.
 Berg, Hemip. Argent., p. 138, 1879, *Aradina*.
 Uhler, Stand. Nat. Hist., ii, p. 283, 1884, *Aradina*.
 Uhler, Check List, p. 22, 1886, *Aradina*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 31, 1896, *Aradidae* (sub-
 Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898, *Aradinae*. [family.)
 Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1903, *Aradinac*.
 Oshanin, Verz. Palae. Hemip., i, p. 463, 1908, *Aradina*.
 Banks, Cat. Neare. Hemip., p. 52, 1910, *Aradina*. [*Aradidae* (as family).
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 57, 1912,
 Oshanin, Kat. Palae. Hemip., p. 46, 1912, *Aradidae* (as family).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914, *Aradidae* (as family).

Genus *Aradus* Fabr.

Orthotype *betulac* (Linn.)

- Fabricius, Syst. Rhyn., p. 116, 1803 (names *betulac* type).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 246, 1804.
 Latreille, Genera Crust. Ins., iii, p. 140, 1807.
 Fallén, Monog. Cimic. Suec., p. 31, 1807.
 Latreille, Consid. Génl., pp. 258, 433, 1810. (Cites *betulac* as type.)

- Wolff, Icon. Cimic., v, p. vii, 1811.
 Latreille, Fam. Règ. Anim., p. 423, 1825, *Arade*.
 Le Peletier and Serville, Eneye. Méth., x, pp. 653, 654, 1825.
 Fallén, Hemip. Suec., Cimic., p. 134, 1829.
 Latreille, Cuvier, Règne Anim., Edn. 2, v, p. 201, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 53, 1832. (Names *annulicornis*
 Herrieh-Schaeffer, Nomen. Ent., pp. 37, 59, 1835. [pseudotype.]
 Burmeister, Handb. d. Ent., ii, p. 255, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 333, 1835.
 Latreille, Cuvier, Anim. King., Lond. Edn., iv, p. 165, 1836.
 Spinola, Essai sur les Hémip., p. 159, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 111, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
 Amyot and Serville, Hémip., p. 307, 1843.
 Spinola, Tavola Sinot., p. 44, 1850.
 Flor, Rhyn. Livl., i, p. 377, 1860.
 Fieber, Europ. Hemip., pp. 34, 110, 1861.
 Stål, Hemip. Afr., iii, pp. 30, 37, 1865.
 Douglas and Scott, Br. Hemip., p. 269, 1865.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 48, 1872.
 Stål, Enum. Hemip., iii, p. 135, 1873.
 Walker, Cat. Heter., vii, pp. 7, 30, 1873.
 Berg, Hemip. Argent., p. 138, 1879.
 Provancher, Pet. Faune Ent. Can., iii, p. 164, 1887.
 Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1903. (Names *versicolor* H. S.
 Osborn, Ohio Nat., iv, p. 36, 1903. [pseudotype.]
 Kirkaldy, Ann. Soc. Ent. Belg., li, p. 301, 1907.

Subgenus **Aradus** Fabr.

Stål, Enum. Hemip., iii, p. 135, 1873. (Section a.)

360. **Aradus aequalis** Say

- Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 797; Compl. Writ., i, p.
 Stål, Enum. Hemip., iii, p. 136, 1873. [352.]
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.
 Osborn, Ohio Nat., iv, p. 36, 1903.
 Bergroth, Can. Ent., xlv, p. 1, 1913.
duryi Osborn, Ohio Nat., iv, p. 39, 1903.
 Localities: "Canada," Ohio, Ind., Ill., Okl., Texas.

361. **Aradus quadrilineatus** Say

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 326, 1825; Compl. Writ., ii, p. 249.
 Stål, Enum. Hemip., iii, p. 137, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.
 Bergroth, Revue d'Ent., vi, p. 247, 1887 (note).
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.
 Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

†*robustus* Provancher, Pet. Faune Ent. Can., iii, p. 165, 1887.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Mo.

362. *Aradus robustus* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.

Stål, Enum. Hemip., iii, p. 136, 1873.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 419, 1878.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Revue d'Ent., vi, p. 247, 1887 (note).

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.

Osborn, Ohio Nat., iv, p. 37, 1903.

Van Duzee, Can. Ent., xlv, p. 323, 1912.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.

†*acqualis* Provancher, Pet. Faune Ent. Can., iii, p. 165, 1887.

Localities: Quebec, Ont., Mass., Conn., N. Y., N. J., Md., Del., N. C., Ohio, Ill., Minn., Ia., Kan., Okl., Wis.

363. *Aradus fuscomaculatus* Stål

Stål, Freg. Eugen. Resa, Ins., p. 260, 1859.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876.

fuscus-annulatus Stål, Enum. Hemip., iii, p. 136, 1873.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Localities: Calif., Vanc. Isd.

364. *Aradus duzei* Bergr.

Bergroth, Proc. Ent. Soc. Wash., ii, pp. 333, 335, 1892.

Osborn, Ohio Nat., iv, p. 38, 1903.

†*vanduzeei* Heidemann, Proc. Ent. Soc. Wash., xii, p. 47, 1910.

Localities: Quebec, Ont., N. Y., Pa., Colo., Calif.

365. *Aradus ornatus* Say

Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 797; Compl. Writ., i, p. 352.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 332, 335, 1892.

Osborn, Ohio Nat., iv, pp. 22, 38, 1903.

Localities: Pa., Ohio, Ind.

366. *Aradus coarctatus* Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 69, 1907.

Localities: Calif., Br. Col.

367. *Aradus behrensi* Bergr.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Proc. Ent. Soc., Wash., ii, p. 335, 1892.

Bergroth, Can. Ent., xxxviii, p. 198, 1906.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.

Localities: Calif., Ore.

368. *Aradus curticolis* Bergr.

Bergroth, Can. Ent., xlv, p. 2, 1913.

Locality: N. C.

368¹₂. *Aradus persimilis* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 232, 1916.

Locality: Calif.

369. *Aradus hubbardi* Heid.

Heidemmann, Proc. Ent. Soc. Wash., vi, p. 232, 1904.

Bergroth, Can. Ent., xxxviii, p. 198, 1906.

Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 232, 1916.

Localities: Colo., N. Mex., Ariz., Calif., Vanc. Isd., Br. Col., "Pt. Sidney."

370. *Aradus cincticornis* Bergr.

Bergroth, Can. Ent., xxxviii, p. 198, 1906.

Bergroth, Can. Ent., xlv, p. 3, 1913.

Locality: Ala.

371. *Aradus similis* Say

Say, Het. N. Harm., p. 28, 1832; Fitch reprint, p. 796; Compl. Writ., i, p. 351.

Stål, Enum. Hemip., iii, p. 136, 1873.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878.

Bergroth, Revue d'Ent., vi, p. 247, 1887.

Bergroth, Proc. Ent. Soc. Wash., ii, pp. 332, 335, 338, 1892.

Heidemmann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.

Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 26, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

Localities: Me., N. Y., N. J., Pa., Md., D. C., N. C., S. C., Fla., Ala., Ill., Texas, Alaska(?).

a. var. centriguttatus Bergr.

Bergroth, Revue d'Ent., vi, p. 246, 1887.

Bergroth, Proc. Ent. Soc. Wash., ii, pp. 332, 335, 1892.

Locality: Fla.

373. *Aradus debilis* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 322, 1876.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 231, 1916.

Localities: Colo., Idaho, Calif., Vanc. Isd., Br. Col.

374. *Aradus montanus* Bergr.

Bergroth, Can. Ent., xlv, p. 1, 1913.

Locality: Colo.

375. *Aradus acutus* Say

Say, Heter. N. Harm., p. 28, 1832; Fitch reprint, p. 795; Compl. Writ., i, p. 351. [351.

Stål, Enum. Hemip., iii, p. 136, 1873.

Uhler, Wheeler's Surv. 100th Merid., v, p. 839, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Heidemmann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.

Sherman, Ent. News, xvi, p. 8, 1905.

Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

americanus Herrich-Schaeffer, Wanz. Ins., viii, p. 115, fig. 889, 1848.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.

Gillette and Baker, Hemip. Colo., p. 58, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.

Localities: N. J., Pa., D. C., N. C., S. C., Ga., Fla., Ala., Ind., Colo., Texas, Calif.

376. *Aradus borealis* Heid.

Heidemann, Proc. Ent. Soc. Wash., xi, p. 190, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.

Localities: N. H., Mich., Calif.

377. *Aradus shermani* Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 68, 1907.

Localities: Pa., N. C.

378. *Aradus inornatus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Bueno and Brimley, Ent. News, xviii, p. 439, 1907.

Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Localities: N. J., Pa., Md., N. C., S. C., Ga., Ill., Wis., Neb., Br. Col.

379. *Aradus crenatus* Say.

Say, Heter. N. Harm., p. 28, 1832; Fitch reprint, p. 795; Compl. Writ., i, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878. [350.]

Uhler, Stand. Nat. Hist., ii, p. 383, 1884.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Bergroth, Wien. Ent. Zeit., xiv, p. 168, 1895.

Osborn, Ohio Nat., iv, p. 37, 1903.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.

Sherman, Ent. News, xvi, p. 8, 1905.

Horvath, Ann. Mus. Nat. Hung., vi, p. 565, 1908.

Oshanin, Verz. Palae. Hemip., i, p. 466, 1908.

conspicuus Herrich-Schaeffer, Nomen. Ent., p. 59, 1835.

†*corticalis* Herrich-Schaeffer, Wanz. Ins., v, p. 90, fig. 538, 1839.

dilatatus Dufour, Ann. Soc. Ent. Fr., Ser. 2, ii, p. 452, pl. 10, figs. 1-4,

Fieber, Europ. Hemip., p. 113, 1861. [1844.]

Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 52, 1872.

Walker, Cat. Heter., vii, p. 32, 1873.

Reuter, Ent. Tidskr., iii, p. 77, 1882.

annulipes Boheman, Of. Vet. Akad. Forh., ix, p. 25, 1852.

Localities: Quebec, Ont., Pa., N. C., Md., D. C., Ala., Ohio.

(Mexico, Palaearctic.)

380. *Aradus compressus* Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 70, 1907.

Localities: Wash., Van. Isd.

381. *Aradus ampliatus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Locality: Calif.

382. *Aradus tuberculifer* Kirby

Kirby, in Richardson, Fauna Bor. Am., iv, p. 278, pl. 6, fig. 5, 1837.

Kirby, in Bethune's reprint, p. 136.

Stål, Enum. Hemip., iii, p. 138, 1873.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.

Bergroth, Can. Ent., xlv, p. 3, 1913 (redescribed).

caliginosus Walker, Cat. Heter., vii, p. 36, 1873.

Localities: Quebec, Ont.

383. *Aradus funestus* Bergr.

Bergroth, Can. Ent., xlv, p. 4, 1913.

†*tuberculifer* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 427,

Gillette and Baker, Hemip. Colo., p. 58, 1895.

[1877.

Localities: Quebec, Ont., Colo., Idaho, Calif., Br. Col.

384. *Aradus uniformis* Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 231, 1904.

Localities: Mass., Pa., Va., N. C.

385. *Aradus marginatus* Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893.

Localities: Utah.

386. *Aradus lugubris* Fall.

Fallén, Hemip. Suec., Cimic., p. 139, 1829.

Herrich-Schaeffer, Wanz. Ins., viii, p. 115, fig. 888, 1848.

Flor, Rhyn. Livl., i, p. 382, 1860.

Fieber, Europ. Hemip., p. 114, 1861.

Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 60, 1872.

Reuter, Ent. Tidskr., iii, pp. 76, 107, 1882.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.

Bergroth, Revue d'Ent., vi, p. 247, 1887.

Reuter, Rev. Synon., p. 235, No. 196, 1888.

Bergroth, Proc. Ent. Soc., Wash., ii, p. 336, 1892.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.

Van Duzee, Can. Ent., xlv, p. 323, 1912.

Bergroth, Can. Ent., xlv, p. 5, 1913.

Kiritshenko, Faune Russie, Hemip., vi, pt. 1, p. 209, 1913.

rectus Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 796; Compl.

Uhler, Hayden's Surv. Terr. for 1871, p. 419, 1872. [Writ., i, p. 352.

Stål, Enum. Hemip., iii, p. 137, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 428, 1877.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1329.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.

- Uhler, Check List, p. 22, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 167, 1887.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893.
 Gillette and Baker, Hemip. Colo., p. 58, 1895.
 Sherman, Ent. News, xvi, p. 7, 1905.
affinis Kirby in Richardson, Fauna Bor. Am., iv, p. 279, 1837.
 Kirby in Bethune's reprint, p. 137.
 Stål, Enum. Hemip., iii, p. 138, 1873.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 839, 1875.
 Gillette and Baker, Hemip. Colo., p. 57, 1895.
gebleri Kolenati, Melet. Ent., vi, p. 23, sp. 226, 1856.
fenestratus Walker, Cat. Heter., vii, p. 36, 1873.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Md., N. C., Ga.,
 Fla., Mo., Colo., N. Mex., Calif., Br. Col., Alberta.

387. *Aradus abbas* Berg.

- Bergroth, Bul. Soc. Ent. Belg. for 1889, p. clxxx.
 Provancher, Pet. Faune Ent. Can., iii, p. 336, 1890.
 Bergroth, Proc. Ent. Soc. Wash., ii, pp. 334, 336, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
 Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
 Localities: Quebec, Ont., N. Y., N. J.

388. *Aradus breviatus* Berger.

- Bergroth, Revue d'Ent., vi, p. 245, 1887.
 Bergroth, Proc. Ent. Soc. Wash., ii, pp. 334, 336, 1892.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
 Localities: N. J., D. C., Fla.

389. *Aradus falleni* Stål

- Stål, Rio Jan. Hemip., i, p. 68, 1860.
 Stål, Enum. Hemip., iii, p. 136, 1873.
 Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 338, 1892.
 Champion, Biol. Centr. Am., Heter., ii, p. 66, pl. 5, fig. 1, 1898.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
 Sherman, Ent. News, xvi, p. 7, 1905.
 Bergroth, Can. Ent. xxxviii, p. 200, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
leucotomus Costa, Ann. Mus. Zool. Nap., ii, p. 143, pl. 2, fig. 2, 1864.
pallidicornis Stål, Enum. Hemip., iii, p. 136, 1873.
 Localities: D. C., N. C., Ga., Fla., Okl., Texas, Calif. (Neotropical.)

390. *Aradus gracilicornis* Stål

- Stål, Enum. Hemip., iii, p. 136, 1873.
 Bergroth, Revue d'Ent., vi, p. 246, 1887.
 Bergroth, Can. Ent., xxxviii, p. 200, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
 Localities: Fla., Ariz. (West Indies.)

391. *Aradus cinnamomeus* Panz.

Panzer, Fauna Germ., Hft. 100, fig. 20, 1794.

Fieber, Europ. Hemip., p. 111, 1861.

Signoret, Ann. Soc. Ent. Fr., Ser. 4, v, p. 119, 1865.

Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 49, 1872.

Stål, Enum. Hemip., iii, p. 76, 1873.

Walker, Cat. Heter., vii, p. 31, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.

Reuter, Ent. Tidskr., iii, p. 76, 1882.

Reuter, Revue Synon., p. 232, No. 190, 1888.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.

Sherman, Ent. News, xvi, p. 8, 1905.

Bueno and Brimley, Ent. News., xviii, p. 439, 1907.

Kiritshenko, Faune Russie, Hemip., vi, pt. 1, p. 85, 1913.

leptopterus Germar, Fauna Europ., fasc. xvii, fig. 8, 1834.

Herrieh-Schaeffer, Nomen. Ent., p. 60, 1835.

Burmeister, Handb. d. Ent., ii, p. 257, 1835.

Herrieh-Schaeffer, Wanz. Ins., v, p. 91, fig. 539, 1839; viii, p. 114, 1848.

Flor, Rhyn. Livl., i, p. 394, 1860.

Signoret, Ann. Soc. Ent. Fr., Ser. 4, v, p. 120, 1865.

perrisii Dufour, Ann. Soc. Ent. Fr., Ser. 2, iii, p. 225, pl. 3, fig. 3, 1845.

albopunctatus Scholtz, Arb. und Verh. Schles. Ges. f. Vaterl. Kult. for
[1846, p. 116.]

Localities: D. C., N. C., Mo., Texas. (Palearctic.)

391¹/₂. *Aradus insoletus* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.

Locality: Calif.

392. *Aradus proboscideus* Walk.

Walker, Cat. Heter., vii, p. 35, 1873.

Locality: "Hudson's Bay."

393. *Aradus fascicornis* Walk.

Walker, Cat. Heter., vii, p. 36, 1873.

Locality: "Nova Scotia."

393¹/₂. *Aradus luteolus* Fyles

Fyles, Can. Ent., xxxv, p. 75, 1903, §*Aratus*.

Locality: Quebec.

Subgenus *Piestosoma* Lap.

Orthotype *depressus* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 53, 1832.

Stål, Enum. Hemip., iii, p. 135, 1873.

394. *Aradus concinnus* Bergr.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.

Bergroth, Can. Ent., xxxviii, p. 198, 1906.

Locality: Calif.

Subgenus **Quilnus** Stål
 Logotype *parvicollis* Stål

Stål, Enum. Hemip., iii, p. 137, 1873.

Horvath, Ann. Mus. Natl. Hung., ix, p. 586, 1911. (Names *parvicollis* type.)

395. **Aradus niger** Stål

Stål, Enum. Hemip., iii, p. 137, 1873.

Heidemann, Proc. Ent. Soc. Wash., iv, p. 389, 1901.

Van Duzee, Ent. News, xiii, p. 23, 1902.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.

Sherman, Ent. News, xvi, p. 8, 1905.

Bergroth, Can. Ent., xxxviii, p. 200, 1906.

Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 587, 1911.

obliquus Uhler MS, Gillette and Baker, Hemip. Colo., p. 58, 1895.

Localities: N. Y., N. J., D. C., N. C., S. C., Colo., Texas.

396. **Aradus heidemanni** Bergr.

Bergroth, Can. Ent., xxxviii, p. 200, 1906.

Localities: Oregon, Br. Col.

Subfamily **MEZIRINAE** (Osh.) 1908

Oshanin, Verz. Palae. Hemip., i, p. 478, 1908, *Mezirina*.

Brachyrhynquides Amyot and Serville, Hémip., pp. xli, 303, 1843.

Brachyrhynchina Stål, Of. Vet. Akad. Forh., xxxvii, p. 671, 1870.

Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 61, 1872.

Stål, Enum. Hemip., iii, pp. 135, 138, 1873.

Walker, Cat. Heter., vii, p. 6, 1873, Fam. *Brachyrhynchidae*.

Berg, Hemip. Argent., p. 139, 1879.

Uhler, Stand. Nat. Hist., ii, p. 283, 1884.

Uhler, Check List, p. 22, 1886.

Bergroth, Ent. Tidskr., xv, p. 118, 1894.

[*rhynchidae*.]

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 38, 1896, *Brachy-*

Champion, Biol. Centr. Am., Heter., ii, p. 66, 1898, *Brachyrhynchinae*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 156, 1903, *Brachyrhynchinae*.

Ancuridae Douglas and Scott, Brit. Hemip., pp. 26, 267, 1865.

Dysodiidae Reuter, Of. Finska Vet. Soc. Forh., liv, pp. 33, 49, 57, 1912.

Oshanin, Kat. Palae. Hemip., p. 47, 1912.

TRIBE **CALISINI** (Stål)

Stål, Enum. Hemip., iii, p. 138, 1873, Div. *Calisiaria*.

Champion, Biol. Centr. Am., Heter., ii, p. 66, 1898, Group *Calisiaria*.

Genus **Calisius** Stål
 Haplotype *pallipes* Stål

Stål, Rio Jan. Hemip., i, p. 67, 1860.

Stål, Hemip. Afr., iii, p. 30, and note, 1865.

Stål, Enum. Hemip., iii, p. 138, 1873.

Bergroth, Ent. Tidskr., xv, p. 98, 1894 (syn. note.)

Champion, Biol. Centr. Am., Heter., ii, p. 66, 1898.

Bergroth, Can. Ent., xlv, p. 5, 1913.

Horvath, Ann. Mus. Natl. Hung., xi, p. 623, 1913 (synop. Old World Spp.).

Aradosyrtris Costa, Ann. Mus. Zool. Nap., ii, p. 132, 1864.

Stål, Enum. Hemip., iii, p. 138, 1873.

397. *Calisius contubernalis* Bergr.

Bergroth, Can. Ent., xlv, p. 6, 1913.

Locality: Fla.

398. *Calisius anaemus* Bergr.

Bergroth, Can. Ent., xlv., p. 7, 1913.

†*pallipes* Heidemann, Proc. Ent. Soc. Wash., vi, p. 229, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.

Banks, Cat. Neare. Hemip., p. 54, 1910.

Localities: Fla. (West Indies.)

TRIBE MEZIRINI Van D.

Van Duzee, Check List Hemip., p. 16, 1916.

Brachyrhyncharia Stål, Enum. Hemip., iii, p. 138, 1873 (Division).

Champion, Biol. Centr. Am., Heter., ii, p. 68, 1898 (Group).

Genus *Proxius* Stål

Haplotype *incrustedatus* Stål

Stål, Enum. Hemip., iii, pp. 139, 141, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 68, 1898.

399. *Proxius gypsatus* Bergr.

Bergroth, Ent. Mo. Mag., xxxiv, p. 100, 1898.

Champion, Biol. Centr. Am., Heter., ii, p. 70, pl. 5, figs. 8, 9, 1898.

Bergroth, Can. Ent., xlv, p. 8, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

Localities: Fla. (Neotropical.)

400. *Proxius schwarzii* Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 230, 1904.

Locality: Fla.

Genus *Aphleboderrhis* Stål

Haplotype *pilosa* Stål

Stål, Rio Jan. Hemip., i, p. 67, 1860.

Stål, Enum. Hemip., iii, pp. 140, 142, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 78, 1898.

401. *Aphleboderrhis pubescens* (Walk.)

Walker, Cat. Heter., vii, p. 38, 1873, *Aradus*.

Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 57, 1886 (doubtful reference).

Lothierry and Severin, Cat. Génl. Hémipt., iii, p. 44, 1896, *Pictinus*.

Champion, Biol. Centr. Am., Heter., ii, p. 79, pl. 5, figs. 26, 27, 1898.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.

Localities: Texas. (Neotropical.)

Genus **Pictinus** Stål
Haplotype *cinctipes* Stål

Stål, Enum. Hemip., iii, pp. 140, 145, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 80, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 163, 1903. (Cites *cinctipes* as type.)

402. **Pictinus aurivillii** Bergr.

Bergroth, Revue d'Ent., vi, p. 247, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 229, 1904.
‡*cinctipes* var. Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 60, 1886.
Localities: Ga.

Genus **Nannium** Bergr.
Orthotype *parvum* Bergr.

Bergroth, Ent. Mo. Mag., xxxiv, p. 100, 1898.
Champion, Biol. Centr. Am., Heter., ii, p. 84, 1898.

403. **Nannium pusio** Heid.

Heidemann, Proc. Ent. Soc. Wash., xi, p. 189, 1909.
Locality: Ohio.

Genus **Mezira** Am. & Serv.

Haplotype *granulata* Am. & Serv. = *usurpata* Bergr.

Amyot and Serville, Hémip., p. 305, 1843.
Fieber, Europ. Hemip., pp. 34, 115, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 438, 1862.
Stål, Hemip. Afr., iii, pp. 32, 35, 1865.
Walker, Cat. Heter., vii, pp. 6, 22, 1873.
Bergroth, Wien. Ent. Zeit., iv, p. 181, 1885.
Bergroth, Can. Ent., xxxviii, p. 202, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 478, 1908.
Distant, Fauna Br. Ind., Rhyn., v, p. 130, 1910.
Banks, Cat. Neare. Hemip., p. 54, 1910.
||*Brachyrhynchus* Laporte, Essai Classif. Syst. Hémip., p. 54, 1832. (Ortho-
Burmeister, Handb. d. Ent., ii, p. 254, 1835. [type *orientalis* Lap.])
Blanchard, Hist. des Ins., Hémip., p. 110, 1840.
Amyot and Serville, Hémip., p. 304, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Fieber, Europ. Hemip., pp. 34, 115, 1861.
Stål, Hemip. Afr., iii, p. 32, 1865.
Stål, Enum. Hemip., iii, p. 143, 1873.
Walker, Cat. Heter., vii, pp. 6, 9, 1873.
Uhler, Check List., p. 22, 1886.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 41, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 91, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 159, 1903. (Names *mem-*
[*branaceus* pseudotype.])
‡*Dysodius* Spinola, Essai sur les Hémip., p. 160, 1837 (1840) (part).
Dusius Bergroth, Ent. Tidskr., xv, p. 104, 1894.
Bergroth, Wien. Ent. Zeit., xiii, p. 179, 1891.

Subgenus **Arictus** StålOrthotype *thoracoceras* Montr.

Stål, Hemip. Afr., iii, p. 31, 1865. (Invalid here.)

Stål, Berl. Ent. Zeit., x, p. 164, 1867. (Valid here.)

Stål, Enum. Hemip., iii, p. 144, 1873.

404. **Mezira lobata** (Say)Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 799; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 145, 1873, *Brachyrhynchus*. [354, *Aradus*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus*.Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892, *Brachyrhynchus*.Champion, Biol. Cent. Am., Heter., ii, pp. 92, 96, pl. 6, fig. 28, 1898, *Brachy-Osborn, Ohio Nat., iv, p. 40, 1903, Brachyrhynchus*. [rhynchus.

Localities: "Canada," Pa., Md., N. C., Ga., Fla., Ohio, Mich., Ind., Ill., Mo., Texas, Calif.

405. **Mezira emarginata** (Say)Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 798; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 147, 1873, *Brachyrhynchus*. [354, *Aradus*.Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894, *Brachyrhynchus*.Champion, Biol. Centr. Am., Heter., ii, pp. 93, 102, pl. 7, fig. 5, 1898, [*Brachyrhynchus*.Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Brachyrhynchus*.

Localities: Miss.(?), N. Mex., Nevada, Calif.

406. **Mezira moesta** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 438, 1862.

Walker, Cat. Heter., vii, p. 23, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus*.Champion, Biol. Centr. Am., Heter., ii, pp. 93, 102, 1898, *Brachyrhynchus*.Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus*.

Localities: N. C.(?), Wyom., Ariz., Calif., Vanc. Isd.

407. **Mezira granulata** (Say)Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 798; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 145, 1873, *Brachyrhynchus*. [353, *Aradus*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878, *Brachyrhynchus*.Bergroth, Proc. Ent. Soc. Wash., i, p. 336, 1892, *Brachyrhynchus*.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.

Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.

Van Duzee, Can. Ent., xlv, p. 323, 1912.

parvulus (Herrich-Schaeffer), Wanz. Ins., ix, p. 139, fig. 956, 1853, *Dysodius*.*†lobatus* Provancher, Pet. Faune Ent. Can., iii, p. 168, 1887.

Localities: Md., N. C., S. C., Ga., Fla., Ala., Ind., Mo., Texas.

Genus **Neuroctenus** MayrLogotype *brasiliensis* Mayr = *punctulatus* (Burm.)

Fieber, Europ. Hemip., p. 34, 1860 (no species, invalid).

Mayr, Verh. Zool.-Bot. Ges. Wien, xvi, p. 365, 1866 (valid here).

Stål, Enum. Hemip., iii, p. 145, 1873.

- Bergroth, Of. Finska Vet. Soc. Forh., xxix, p. 173, 1887. (Synopsis.)
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
 Champion, Biol. Centr. Am., Heter., ii, p. 106, 1898. [type.]
 Distant, Fauna Br. Ind., Rhyn., ii, p. 164, 1903. (Names *caffer* Stål pseudo-

408. *Neuroctenus simplex* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus*.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
 Osborn, Ohio Nat., iv, p. 40, 1903.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
 Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus*.
 Sherman, Ent. News, xvi, p. 9, 1905, *Neuroctenus*.
 Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910.
 Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
 Localities: N. Y., N. J., Pa., Md., D. C., N. C., Ga., Fla.,
 Ohio, Ind., Ill., Mo., Texas.

409. *Neuroctenus pseudonymus* Bergr.

- Bergroth, Wien. Ent. Zeit., xvii, p. 27, 1898.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
 Sherman, Ent. News, xvi, p. 9, 1905.
†ovatus Bergroth, Of. Finska Vet. Soc. Forh., xxix, p. 183, 1887.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
 Osborn, Ohio Nat., iv, p. 41, 1903.
 Sherman, Ent. News., xvi, p. 8, 1905, *Brachyrhynchus*.
 Localities: D. C., N. C., Ohio, Ind.

410. *Neuroctenus elongatus* Osb.

- Osborn, Ohio Nat., iv, p. 41, 1903.
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
 Sherman, Ent. News, xvi, p. 9, 1905.
 Bueno and Englehardt, Can. Ent., xlii, p. 150, 1910.
 Localities: Pa., N. C., Ohio.

411. *Neuroctenus hopkinsi* Heid.

- Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
 Sherman, Ent. News, xvi, p. 9, 1905.
 Locality: N. C.

Genus *Aneurus* Curt.

Haplotype *lacvis* (Fabr.)

- Curtis, Br. Ent., ii, pl. 86, 1825.
 Laporte, Essai Classif. Syst. Hémip., p. 54, 1832. (Cites *lacvis* as type.)
 Herrich-Schaeffer, Nomen. Ent., pp. 37, 59, 1835.
 Burmeister, Handb. d. Ent., ii, p. 253, 1835.
 Spinola, Essai sur les Hémip., p. 160, 1837 (1840).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840. (Cites *lacvis* as
 Amyot and Serville, Hémip., p. 306, 1843. [type.]
 Spinola, Tavola Sinot., p. 44, 1850.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 141, pl. 310, figs. A-D, 1853.
 Flor, Rhyn. Livl., i, p. 395, 1860.

- Fieber, Europ. Hemip., pp. 35, 116, 1861.
 Douglas and Scott, Br. Hemip., p. 267, 1865.
 Stål, Hemip. Afr., iii, p. 32, 1865.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 62, 1872.
 Stål, Enum. Hemip., iii, p. 146, 1873.
 Walker, Cat. Heter., vii, pp. 6, 8, 29, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878.
 Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 56, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 168, 1887.
 Champion, Biol. Centr. Am., Heter., ii, p. 113, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 166, 1903. (Cites *lucris* Fabr. as type.)
 Bergroth, Ann. Mus. Natl. Hung., xii, p. 89, 1914. (Exotic forms.)
 †*Brachyrhynchus* Brullé, Hist. des Ins., Hémip., ix, p. 335, 1835 (as subgen.
 [of *Aradus*.)

412. *Aneurus politus* Say

- Say, Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 799; Compl. Writ., i, p.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871. [354.
 Stål, Enum. Hemip., iii, p. 146, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
 Champion, Biol. Centr. Am., Heter., ii, p. 115, pl. 7, fig. 29, 1898.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
 Localities: Fla. (Neotropical.)

413. *Aneurus septentrionalis* Walk.

- Walker, Cat. Heter., vii, p. 30, 1873.
 Bergroth, Revue d'Ent., vi, p. 247, note, 1887.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
 Champion, Biol. Centr. Am., Heter., ii, p. 116, 1898 (mere notice).
 Van Duzee, Can. Ent., xlv, p. 323, 1912.
 †*politus* Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.
 Localities: Nova Scotia, Quebec, Ont.

414. *Aneurus inconstans* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 105, 1871.
 Stål, Enum. Hemip., iii, p. 146, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
 Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa.

415. *Aneurus simplex* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
 Stål, Enum. Hemip., iii, p. 146, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878.
 Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
 Champion, Biol. Centr. Am., Heter., ii, p. 116, 1898 (notice only).
 Heidemann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.
 Localities: "New England," Wash.

416. *Aneurus minutus* Bergr.

Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 58, 1886.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.

Champion, Biol. Centr. Am., Heter., ii, p. 114, pl. 7, fig. 27, 1898.

Heidemmann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.

Localities: Ga., Fla., Texas, Ariz.

417. *Aneurus fiskei* Heid.

Heidemmann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.

Sherman, Ent. News, xvi, p. 9, 1905.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.

Localities: N. Y., Pa., Va., N. C., Ga.

418. *Aneurus tenuicornis* Champ.

Champion, Biol. Centr. Am. Heter., ii, p. 116, pl. 7, fig. 30, 1898.

Locality: Ga.

SERIES *ONYCHIOPHORA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 75, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 27, 31, 49, 1912.

Oshanin, Kat. Palae. Hemip., p. 26, 1912.

Superfamily *LYGAEOIDEAE* Osh.

Oshanin, Kat. Palae. Hemip., p. 26, 1912.

Neidoideae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.

PHALYNX *LYGAEIFORMES* Osh.

Oshanin, Kat. Palae. Hemip., p. 27, 1912.

Neidiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 31, 49, 1912.

Family *NEIDIDAE* (Kirk.)

Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 302, 1902, subfam. *Neiinae*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 77, 83, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 47, 49, 58, 1912.

Berytidea Fieber, Genera Hydroc., p. 9, 1851.

Costa, Cimic. Neap., Cent., iii, p. 67, 1852, *Berytini* (subfam. of Fieber, Wien. Ent. Monats., iii, p. 200, 1859, *Berytidea*. [Coreidae].

Fieber, Europ. Hemip., p. 26, 1860, *Berytidae*.

Stål, Hemip. Fabr., ii, p. 119, 1865, *Berytida*.

Douglas and Scott, Brit. Hemip., p. 18, 1865, *Berytina*.

Stål, Enum. Hemip., iv, p. 127, 1874, *Berytina* (subfam. of *Lygaeidae*).

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876, *Berytina* (subfam. [of *Coreidae*].)

Uhler, U. S. Geol. Geog. Surv., iii, p. 406, 1877, *Berytinac* (subfam. [of *Coreidae*].)

Distant, Biol. Centr. Am., Heter., i, p. 162, 1881, *Berytinac* (subfam. [of *Coreidae*].)

Uhler, Stand. Nat. Hist., ii, p. 289, 1884, *Berytidae*. [of *Coreidae*].

Berg, Hemip. Argent., Add., p. 52, 1884, *Berytina* (subfam. of

Puton, Cat. Hemip. Palae., Edn. 3, p. 19, 1886, *Berytidae*. [Lygaeidae].

- Uhler, Check List, p. 13, 1886, *Berytidae*.
 Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 127, 1894, *Berytidae*.
 Distant, Fauna Br. Ind., Rhyn., i, p. 421, 1902, *Berytidae*. [*Lygaeidae*.]
 Van Duzee, Can. Ent., xli, p. 372, 1909, *Berytidae* (subfam. of
 Bergroth, Ann. Soc. Ent. Belg., liv, p. 297, 1910, *Berytidae*.
 Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910, *Berytinae* (sub-
 Banks, Cat. Neare. Hemipt., p. 71, 1910, *Berytidae*. [fam. of *Coreidae*.]
 Horvath, Ann. Mus. Natl. Hung., ix, p. 13, 1911, *Berytidae*.
 Oshanin, Kat. Palae. Hemipt., p. 40, 1912, *Berytidae*.

Subfamily NEIDINAE Van D.

Van Duzee, Check List Hemipt., p. 17, 1916.

Berytidae Douglas and Scott, Brit. Hemipt., pp. 19, 149, 1865.

Puton, Cat. Hemipt. Palae., edn. 3, p. 19, 1886, *Berytaria*. [(as subfam.).

Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 127, 1894, *Berytidae*

Oshanin, Verz. Palae. Hemipt., i, p. 236, 1906, *Berytaria* (Division).

Oshanin, Kat. Palae. Hemipt., p. 40, 1912, *Berytaria* (Tribe).

Genus *Neides* Latr.

Logotype *tipularius* (Linn.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 246, 1802; xii, p. 209, 1804.

Latreille, Genera Crust. Ins., iii, p. 120, 1807.

Latreille, Consid. Génl., pp. 255, 433, 1810. (Names *tripularius* type.)

Latreille, Fam. Règne Anim., p. 421, 1825 (not Latin).

Curtis, Br. Ent., iv, pl. 150, 1827.

Latreille *in* Cuvier, Règne Anim., Edn. 2, v, p. 198, 1829.

Laporte, Essai Classif. Syst. Hémipt., p. 41, 1832. (Cites *tripularius* as type.)

Brullé, Hist. des Ins., ix, p. 354, 1835.

Latreille *in* Cuvier Anim. King., London Edn., iv, p. 163, 1836.

Spinola, Essai sur les Hémipt., p. 203, 1837 (1840).

Blanchard, Hist. des Ins., Hémipt., p. 115, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. (Cites *tipularius*

Amyot and Serville, Hémipt., p. 233, 1843. [as type.]

Spinola, Tavola Sinot., p. 42, 1850.

Dallas, List of Hemipt., ii, p. 488, 1852.

Fieber, Europ. Hemipt., pp. 54, 209, 1861.

Stål, Enum. Hemipt., iv, pp. 127, 128, 1874.

Puton, Cat. Hémipt. Palae., Edn. 3, p. 19, 1886.

Uhler, Check List., p. 13, 1886.

Distant, Biol. Centr. Am., Heter., i, p. 460, 1893.

Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 127, 1894.

Kirkaldy, Proc. Ent. Soc. Wash., vii, p. 28, 1905.

Oshanin, Kat. Palae. Hemipt., 40, 1912.

Berytus Fabricius, Syst. Rhyng., p. 264, 1803. (Orthotype *tipularius*

Say, Am. Ent., i, pl. xiv, 1824. [Fabr.]

Fallén, Hemipt. Succ., Cimic., p. 164, 1829.

Schilling, Hemipt. Silesiae, Beit. z. Ent., ii, p. 55, 1829. [*tipularius* Linn.]

Leach *in* Brewster, Edinbg. Encyc., Am. Edn., viii, p. 710, 1832 (for

Hahn, Wanz. Ins., i, p. 132, 1831.

Herrieh-Schaeffer, Nomen. Ent., p. 36, 1835.

- Burmeister, Handb. d. Ent., ii, p. 313, 1835.
 Reuter, Rev. Synon., pp. 176, No. 112; p. 178, No. 113, note, 1888.
 Bergroth, Wien. Ent. Zeit., xxv, p. 10, 1906.
Podiccrus Dumeril, Diety. Hist. Nat., iv, suppl. p. 81, 1816; xxx, p. 406.
 [1824; xlii, p. 56, 1856. (Type *tipularius* Linn.)
Sphalerochoris Flor, Rhyn. Livl., i, pp. 202, 205, 1860.
 †*Capys* Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.

419. *Neides muticus* (Say)

- Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 772; Compl. Writ., i, p. Stål, ? Enum. Hemip., iv, p. 129, 1874. [328, *Berytus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 406, 1877; iv, p. Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878. [504, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885, *Capys*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 132, 1894, *Jalysus*.
 Gillette and Baker, Hemip. Colo., p. 19, 1895.
 Van Duzee, Can. Ent., xli, p. 372, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 148, 1910.
gracilipes Stål, Freg. Eng. Resa, Ins., p. 235, 1859.
decurvatus Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 100, 1871.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872 (as new).
 Localities: Quebee, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
 Ga., Ohio, Mich., Ill., Wis., Neb., Kan., Colo., Utah, Idaho,
 Ariz., Calif., Vane. Isd.

Genus *Hoplinus* Stål

Haplotype *spinosissimus* (Sign.)

- Stål, Enum. Hemip., iv, pp. 127, 128, 1874.

420. *Hoplinus* (?) *multispinus* Ashm.

- Ashmead, Ent. Am., iii, p. 155, 1887.
 Locality: Fla.

Subfamily METACANTHINAE D. & S.

- Douglas and Scott, Brit. Hemip., pp. 19, 145, 1865, *Metacanthidae*.
 Puton, Synop. Heter. Fr., ii, p. 121, 1879.
 Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, Div. *Metacantharia*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 131, 1894, Subfam. *Meta-*
Oshanin, Verz. Palae. Hemip., i, p. 242, 1906, Div. *Metacanthidae*. [*canthidae*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907, Fam. *Metacanthidae*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909, Fam. *Metacanthidae*.
Oshanin, Kat. Palae. Hemip., p. 41, 1912, Tribe *Metacantharia*.

Genus *Jalysus* Stål

Logotype *macer* Stål

- Stål, Rio Jan. Hemip., ii, p. 59, 1862.
 Stål, Enum. Hemip., iv, p. 128, 1874.
 Distant, Biol. Centr. Am., Heter., i, p. 162, 1881.
 Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911. (Key.)

421. *Jalysus spinosus* (Say)

Say, Am. Ent., i, pl. 14, 1824; Compl. Writ., i, p. 28, pl. 14, *Berytus*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872, *Neides*.

Stål, Enum. Hemip., iv, p. 129, 1874.

Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875, *Neides*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 406, 1877, *Neides*.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Neides*.

Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.

Uhler, Check List, p. 13, 1886.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.

Gillette and Baker, Hemip. Colo., p. 19, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 148, 1910.

Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga.,
Fla., Ohio, Ill., Mich., Wis., Neb., Kan., Colo., Texas.

a. var. *wickhami* Van D.

Van Duzee, Ent. News, xvii, p. 387, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Localities: Utah, Ariz., Calif., Oregon.

422. *Jalysus elongatus* Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 23, 1911.

Locality: Ariz.

423. *Jalysus perclavatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.

†*multispinus* Banks, Cat. Nearc. Hemip., p. 71, 1910 (part).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

†*multispinosus* Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.

Localities: N. J., D. C., Fla., Mo., Ariz.

Genus *Protacanthus* Uhl.

Haplotype *decorus* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 707.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 179, 1913.

424. *Protacanthus decorus* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 708.

Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 430, 1901, *Metacanthus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 14, 1907; ix, p. 164, 1909.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 179, 1913.

Van Duzee, Check List Hemip., p. 17, 1916, *Metacanthus*.

capitatus Uhler, Proc. Zool. Soc. Lond. for 1894, p. 181, *Metacanthus*.

Localities: Fla. (West Indies.)

Genus *Pronotacantha* Uhl.

Haplotype *annulata* Uhl.

Uhler, N. Am. Fauna, vii, p. 260, 1893.

425. *Pronotacantha annulata* Uhl.

Uhler, N. Am. Fauna, vii, p. 260, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894, *Acantholacna*.Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906, *Acantholaena*.

Localities: Ariz., Calif.

Genus *Acanthophysa* Uhl.Haplotype *echinata* Uhl.

Uhler, N. Am. Fauna, vii, p. 261, 1893.

426. *Acanthophysa echinata* Uhl.

Uhler, N. Am. Fauna, vii, p. 261, 1893.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.

Localities: N. Mex., Calif.

Family **LYGAEIDAE** (Schill.)Schilling, Beit. z. Ent., i, p. 37, 1829, Div. *Lygacides*.Hahn, Wanz. Ins., i, p. 231, 1831, *Lygacides*.Laporte, Essai Classif. Syst. Hémip., p. 32, 1832, *Lygêites*.Herrieh-Schaeffer, Nomen. Ent., i, p. 36, 1835, *Lygaeidae*.Burmeister, Handb. d. Ent., ii, pp. iii, 279, 1835, *Lygaeodes*.Brullé, Hist. des Ins., ix, p. 372, 1835, *Lygêens*.Spinola, Essai sur les Hémip., p. 224, and chart 14, 1837 (1840), *Lygeites*.Costa, Cimic. Reg. Neap., Cent., i, p. 38, 1838, *Lygaeini*.Blanchard, Hist. des Ins., Hémip., p. 127, 1840, *Lygêens*.Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840, *Lygaeidae*.Spinola, Tavola Sinot., pp. 26, 27, 38, 1850, *Lygêitae*.Fieber, Genera Hydroc., p. 9, 1851, *Lygacodae*.Dallas, List of Hemip., ii, p. 531, 1852, *Lygaeidae*.Stål, Freg. Eug. Resa, Ins., p. 240, 1859, *Lygacides*.Costa, Cimic. Reg. Neap., Add., p. 16, 1860, *Lygaeidea*.Flor, Rhyn. Livl., i, p. 213, 1860, *Lygacodea*.Stål, Rio Jan. Hemip., i, p. 37, 1860, *Lygaeidae*.Fieber, Europ. Hemip., pp. 26, 163, 1861, *Lygacodae*.Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Lygaeida*.Stål, Hemip. Afr., ii, p. 120, 1865, *Lygaeida*.Stål, Hemip. Fabr., i, p. 69, 1868, *Lygaeida*.Schjoedte, Nat. Tidskr., Ser. 3, vi, p. 266, 1869, *Lygaci*.Stål, Of. Vet. Akad. Forh., xxvii, p. 659, 1870, *Lygacina*.Stål, Enum. Hemip., iv, p. 98, 1874, *Lygaeidae*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876, *Lygaeidae*.Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, *Lygaeidae*.Reuter, Revue d. Ent., iv, p. 199, 1885, *Lygaeidae*.Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, *Lygaeides*.Uhler, Check List, p. 13, 1886, *Lygaeidae*.Lethierry and Severin, Cat. Génl. Hémip., ii, p. 135, 1894, *Lygaeidae*.Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, *Lygaeidae*.Distant, Fauna Br. Ind., Rhyn., ii, p. 1, 1903; v, p. 1, 1910, *Lygaeidae*.Horvath, Ann. Mus. Natl. Hung., ix, p. 10, 1911, *Lygaeidae*.

- Oshanin, Kat. Palae. Hemip., p. 27, 1912, *Lygaeidae*.
Infericornis Amyot and Serville, Hémip., pp. xxxvi, 248, 1843.
Mygodochidae Kirkaldy, Entomol., xxxii, p. 220, 1899.
 Kirkaldy, Can. Ent., xxxix, p. 244, 1907; xl, p. 360, 1908.
 Kirkaldy, Trans. N. Zeal. Inst., xli, p. 25, 1908.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
 Bergroth, Ann. Soc. Ent. Belg., liii, p. 189, 1909.
 Kirkaldy, Can. Ent., xlii, p. 63, 1910.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.
 Reuter, Of. Finska Vet. Soc. Förh., liv, Afd. A, No. 6, pp. 49, 58, 1912.
Geocoridae Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 306, 1902.
 Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 149, 1907.
Pyrhocoridae Kirkaldy, Entomol., xxxvii, p. 280, 1904.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 343 (part).

Subfamily LYGAEINAE Stål

- Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Lygaeida*.
 Stål, Hemip. Afr., ii, p. 121, 1865, *Lygaeida*.
 Stål, Of. Vet. Akad. Forh., xxvii, No. 7, p. 37, 1872, *Lygaeina*.
 Stål, Enum. Hemip., iv, p. 98, 1874.
 Berg, Hemip. Argent., p. 98, 1879, *Lygaeina*.
 Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, *Lygaeinae*.
 Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, Tribe *Lygaeini*.
 Uhler, Check List, p. 15, 1886.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 135, 1894, Subfam. *Lygaeidae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 2, 1903, *Lygaeinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, *Lygaeina*.
 Banks, Cat. Neare. Hemip., p. 60, 1910, *Lygaeini*.
 Oshanin, Kat. Palae. Hemip., p. 27, 1912, *Lygaeinae*.

TRIBE LYGAEINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxvii, No. 7, p. 40, 1872, Div. *Lygaearia*.
 Stål, Enum. Hemip., iv, p. 98, 1874, Div. *Lygaearia*.
 Berg, Hemip. Argent., p. 98, 1879, Div. *Lygaearia*.
 Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, Div. *Lygaearia*.
 Reuter, Revue d'Ent., iv, p. 199, 1885, Div. *Lygaearia*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 2, 1903, Div. *Lygaearia*.
 Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, Div. *Lygaearia*.
 Oshanin, Kat. Palae. Hemip., p. 27, 1912, Tribe *Lygaearia*.
Astacopinae Kirkaldy, Can. Ent., xxxix, p. 244, 1907.

Genus *Oncopeltus* Stål

Logotype *famelicus* (Fabr.)

- Stål, Hemip. Fabr., i, pp. 70, 75, 1868.
 Walker, Cat. Heter., v, p. 37, 1872.
 Stål, Enum. Hemip., iv, pp. 98, 101, 1874.
 Berg, Hemip. Argent., p. 98, 1879.
 Distant, Biol. Centr. Am., Heter., i, p. 174, 1882.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 4, 1903.

Subgenus *Oncopeltus* Stål

- Stål, Enum. Hemip., iv, p. 101, 1874.

427. *Oncopeltus gutta* (H. S.)

Herrich-Schaeffer, Wanz. Ins., vii, p. 20, fig. 703, 1844, *Lygaeus*.

Dallas, List of Hemip., ii, p. 539, 1852, *Lygaeus*.

Herrich-Schaeffer, Wanz. Ins., ix, p. 200, 1853, *Lygaeus*.

Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862, *Lygaeus*.

Stål, Hemip. Fabr., i, p. 75, 1868.

Walker, Cat. Heter., v, p. 42, 1872.

Stål, Enum. Hemip., iv, p. 101, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876 (*guttas*).

Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 16, fig. 22, 1882.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894.

Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 15, 1907.

Localities: Ariz., Calif. (Neotropical.)

428. *Oncopeltus varicolor* (Fabr.)

Fabricius, Ent. Syst., iv, p. 149, 1794, *Lygaeus*.

Fabricius, Syst. Rhyng., p. 219, 1803, *Lygaeus*.

Dallas, List of Hemip., ii, p. 538, 1852, *Lygaeus*.

Stål, Hemip. Fabr., i, p. 70, 1868.

Stål, Enum. Hemip., iv, p. 102, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 16, fig. 21, 1882.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189.

alternans (Herrich-Schaeffer), Wanz. Ins., vii, p. 20, fig. 704, 1844, *Lygaeus*

Herrich-Schaeffer, Wanz. Ins., ix, p. 200, 1850, *Lygaeus*.

Dallas, List of Hemip., ii, p. 539, 1852, *Lygaeus*.

Locality: Calif.

429. *Oncopeltus sanguinolentus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.

Locality: Calif.

Subgenus *Erythriscus* StålLogotype *fasciatus* (Dall.)

Stål, Enum. Hemip., iv, p. 102, 1874.

431. *Oncopeltus sandarachatus* (Say)

Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 772; Compl. Writ., i, p.

Stål, Enum. Hemip., iv, p. 103, 1874.

[328, *Lygaeus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Erythriscus*.

Distant, Biol. Centr. Am., Heter., i, p. 176, 1882.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907.

†*unifasciatus* var. Herrich-Schaeffer, Wanz. Ins., viii, p. 105, fig. 876, 1848,

[*Lygaeus*.

Localities: Calif. (Neotropical.)

432. *Oncopeltus fasciatus* (Dall.)

Dallas, List of Hemip., ii, p. 538, 1852, *Lygaeus* (n.n. for *aulicus* H. S.).

Guerin, Sagra, Hist. de Cuba, Ins., p. 394, 1857, *Lygaeus*.

Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862, *Lygaeus*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 125, 1868, *Lygaeus*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872, *Lygaeus*.

Stål, Enum. Hemip., iv, p. 103, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Erythriscius*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326, *Lygaeus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878, *Erythriscius*.

Distant, Biol. Centr. Am., Heter., i, p. 176, pl. 16, fig. 23, 1882.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 140, 1910.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 133, 1911 (egg).

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

Essig, Inj. Ben. Ins., Calif., edn. 2, p. 206, 1915.

†*aulicus* (Herrich-Schaeffer), Wanz. Ins., vi, p. 76, fig. 646, 1842, *Lygaeus*.

Herrich-Schaeffer, Wanz. Ins., ix, p. 196, 1853, *Lygaeus*.

Localities: Mass., N. J., Md., Pa., N. C., Fla., La., Ind., Wis., Texas,
Ariz., Calif. (Neotropical.)

433. *Oncopeltus sex-maculatus* Stål

Stål, Enum. Hemip., iv, p. 102, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 17, fig. 1, 1882.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

†*gutta* (Glover), Illust. Ins., Ord. Hemip., p. 45, pl. 7, fig. 15, 1876, *Lygaeus*.

Localities: Fla. (Mexico, Centr. Am.)

Genus *Lygaeus* Fabr.

Logotype *equestris* (Linn.)

Fabricius, Ent. Syst., iv, p. 133, 1794. (Indicates *valgus* as typical).

Latreille, Precis, p. 84, 1796, (no species mentioned).

Lamarek, Syst. Anim. s. Vertéb., p. 294, 1801 (as subgen. of *Cimex*; names
[*equestris* Linn. type]).

Latreille, Hist. Nat. Crust. Ins., iii, p. 243, 1802. (Names *Cimex apterus*
[Linn. and *equestris* Linn. as examples.])

Walcenaer, Faune Paris., ii, p. 345, 1802, *Ligeus* (includes Coreids and
[Lygaeids.])

Fabricius, Syst. Rhyng., p. 203, 1803 (indicates *tenebrosus* as type).

Latreille, Hist. Nat. Crust. Ins., xii, p. 210, 1804 (gives *equestris* as first
[species]).

Latreille, Genera Crust. Ins., iii, p. 121, 1807 (includes Coreids and Lygaeids).

Fallén, Monog. Cimic. Suec., p. 62, 1807 (I, Lygaeids; II, Capsids).

Latreille, Consid. Génl., pp. 255, 433, 1810 (names *apterus* as type).

Wolff, Icon. Cimic., v, p. viii, 1811 (after Fabricius).

Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 495, 1816 (*equestris* first species).

Latreille, Fam. Règ. Anim., p. 421, 1825.

LePellitier and Serville, Encyc. Méthod., x, p. 322, 1825 (mentions *Salda atra*,
[*albipennis* and *grylloides* Fabr.])

Latreille, Cuvier, Règne Animal, edn. 2, v, p. 198, 1829 (first correctly re-
[stricts genus].)

Fallén, Hemip. Suec., Cimic., p. 47, 1829 (gives *equestris* as first species).

- Schilling, Beitr. z. Ent., i, pp. 37, 58, 1829 (*equestris* first species).
 Laporte, Essai Classif. Syst. Hémip., p. 33, 1832 (names *familiaris* pseudotype).
 Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 43, 1835 (for *equestris* and others).
 Burmeister, Handb. d. Ent., ii, p. 297, 1835 (for *equestris* and others).
 Brullé, Hist. des Ins., ix, p. 384, 1835 (names *militaris* type).
 Latreille, Cuvier Anim. Kingd., Lond. Edn., iv, p. 163, 1836.
 Spinola, Essai sur les Hémip., p. 258, 1837 (1840) (includes *equestris*).
 Blanchard, Hist. des Ins., Hémip., p. 129, 1840 (includes *equestris*).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *equestris* Guérin, Icon. Reg. Anim., p. 346, 1842. [as type].
 Amyot and Serville, Hémip., p. 249, 1843 (for *equestris* and others).
 Spinola, Tavola Sinot., p. 38, 1850.
 Dallas, List of Hemip., ii, p. 533, 1852 (includes *equestris*).
 Flor, Rhyn. Livl., i, p. 219, 1860 (for *familiaris* and *equestris*).
 Fieber, Europ. Hemip., pp. 44, 164, 1861 (includes *equestris* and others).
 Stål, Of. Vet. Akad. Forh., xix, pp. 210, 212, 1862 (describes *equestris*).
 Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.
 Stål, Hemip. Afr., ii, p. 125, 1865 (includes *familiaris*).
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 123, 1868.
 Stål, Hemip. Fabr., i, p. 71, 1868.
 Thompson, Opusc. Ent., fasc. ii, p. 181, 1870 (*equestris* only species).
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.
 Walker, Cat. Heter., v, pp. 37, 38, 1872.
 Stål, Enum. Hemip., iv, p. 104, 1874.
 Distant, Biol. Centr. Am., Heter., i, p. 177, 1882.
 Reuter, Revue d'Ent., iv, pp. 199, 201, 1885.
 Provancher, Pet. Faune Ent. Can., iii, p. 69, 1886.
 Reuter, Rev. Synon., p. 179, No. 115, note 4, 1888 (follows Laporte in fixing Distant, Fauna Br. Ind., Rhyn., ii, p. 5, 1903. [*familiaris* as type].
 †*Eulygacus* Berg, Nova Hemip., p. 68, 1892.
 †*Stalagmostethus* Kirkaldy, Trans. N. Zeal. Inst., xli, p. 25, 1909.
 §*Lygus* Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910.
 †*Spilostethus* Bergroth, Rev. Zool. Afr., iii, p. 457, 1914.

Subgenus **Lygaeus** Fabr.

Logotype *equestris* (Linn.)

- Van Duzee, Can. Ent., xlv, p. 381, 1914.
Graptolomus Stål, Hemip. Fabr., i, pp. 73, 75, 1868.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.
 Stål, Enum. Hemip., iv, p. 106, 1874.
Eulygacus Reuter, Rev. Synon., p. 180, No. 116, 1888 (type *equestris*).

434. **Lygaeus turcicus** Fabr.

- Fabricius, Syst. Rhyng., p. 218, 1803.
 Dallas, List of Hemip., ii, p. 540, 1852.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 195, 1853.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 124, 1868.
 Stål, Hemip. Fabr., i, p. 73, 1868.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
 Walker, Cat. Heter., v, p. 42, 1872.
 Stål, Enum. Hemip., iv, p. 107, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878.
 Townsend, Ent. Am., iii, p. 53, 1887 (life history).
 Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 400, 1893.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
 Kirkaldy, Proc. Haw. Ent. Soc., i, p. 149, 1907, *Stalagmostethus*.
 Parshley, Psyche, xxi, p. 146, 1914.
 Bueno, Psyche, xxii, p. 16, 1915.
 Localities: Me., Mass., Conn., N. Y., Pa., Va., Mich., Ill., Mo.,
 Okl., Colo., N. Mex., Ariz.

435. *Lygaeus costalis* H. S.

- Herrieh-Schaeffer, Wanz. Ins., vii, p. 22, fig. 706, 1844; ix, p. 195, 1853.
 Dallas, List of Hemip., ii, p. 541, 1852.
 Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.
 Stål, Enum. Hemip., iv, p. 107, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.
 Distant, Biol. Centr. Am., Heter., i, p. 178, 1882.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
 †trur Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
 Localities: Texas, Ariz., Calif.

436. *Lygaeus reclinatus* Say

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 321, 1825; Compl. Writ., ii, p. 245.
 Dallas, List of Hemip., ii, p. 541, 1852.
 Stål, Enum. Hemip., iv, p. 107, 1874.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 834, 1875.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876; iii, p. 408, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878.
 Distant, Biol. Centr. Am., Heter., i, p. 178, 1882.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
 Gillette and Baker, Hemip. Colo., p. 27, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
 Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.
 †bipunctulus Herrieh-Schaeffer, Wanz. Ins., ix, p. 195, 1853.
 Stål, Enum. Hemip., iv, p. 108, 1874.
a. var. enotus Say
 Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i,
 [p. 329.
 Localities: Mo., Dak., Kan., Colo., N. Mex., Texas, Ariz., Nev.,
 Calif., Ore., Wash.

437. *Lygaeus kalmii* Stål

Stål, Enum. Hemip., iv, p. 107, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 178, pl. 17, fig. 2, 1882.

Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.

Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 399, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.

Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.

Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

†*tureicus* Prov., Pet. Faune Ent. Can., iii, p. 70, 1886.

1. var. *melanodermus* Montd.

Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 400, 1893.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md.,
N. C., Mich., Wis., Ill., Mo., Minn., Kan., Colo., Utah, Texas,
Calif. (Mexico.)

438. *Lygaeus truculentus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.

Stål, Enum. Hemip., iv, p. 108, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 179, pl. 17, fig. 4, 1882.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

Localities: Calif. (Mexico.)

439. *Lygaeus formosus* Blanch.

Blanchard, Hist. des Ins., Hémip., p. 130, 1840.

d'Orbigny, Diet. u. Atl., Zool., ii, Hemip., pl. 4, fig. 1, 1849.

Stål, Enum. Hemip., iv, p. 108, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

elatus Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.

Localities: Fla. (Neotropical.)

Subgenus *Melanopleurus* Stål

Logotype *bicolor* H. S.

Stål, Enum. Hemip., iv, pp. 105, 109, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.

440. *Lygaeus belfragei* Stål

Stål, Enum. Hemip., iv, p. 109, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanopleurus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.

†*bicolor* Snow, Trans. Kan. Acad. Sci., xx, pt. 1, pp. 152, 178, 1906; pt. 2,

?Bueno, Ent. News, xxiv, p. 22, 1913.

[p. 159, 1907.

Localities: Texas, N. Mex., Ariz., Calif.

441. *Lygaeus bistriangularis* Say

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 773; Compl. Writ., i, p.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.

[329.

Stål, Enum. Hemip., iv, p. 109, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanopleurus*.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326, *Melanopleurus*.

Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.

Provancher, Pet. Faune Ent. Can., iii, p. 69, 1886.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.

Van Duzee, Can. Ent., xlv, p. 319, 1912.

vicinus Dallas, List of Hemip., ii, p. 549, 1852.

a. var. **marginellus** Dall.

Dallas, List of Hemip., ii, p. 548, 1852.

Stål, Enum. Hemip., iv, p. 109, 1874.

Localities: Texas, Colo., Ariz., Calif. (Neotropical.) (Quebec in error.)

442. **Lygaeus albulus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 380, pl. 34, fig. 2, 1893 (January).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 51, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

solida (Uhler), N. Am. Fauna, vii, p. 262, 1893 (May), *Lygaeosoma*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Localities: Fla., Texas, Colo., Utah, Calif.

Subgenus **Craspeduchus** Stål

Logotype *xanthostaurus* H. S.

Stål, Enum. Hemip., iv, pp. 105, 109, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 181, 1882.

443. **Lygaeus uhleri** Stål

Stål, Enum. Hemip., iv, p. 109, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 181, pl. 16, fig. 12, 1882.

Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.

Localities: Texas. (Neotropical.)

Subgenus **Ochrostomus** Stål

Logotype *pulchellus* Fabr.

Stål, Enum. Hemip., iv, pp. 105, 110, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 181, 1882.

†*Lygaeus* Stål, Hemip. Fabr., i, p. 71, 1868.

444. **Lygaeus pyrrhopterus** Stål

Stål, Enum. Hemip., iv, p. 110, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Ochrostomus*.

Distant, Biol. Centr. Am., Heter., i, p. 182, pl. 17, fig. 6, 1882.

Localities: Texas, Calif. (Mexico.)

445. **Lygaeus melanopleurus** Uhl.

Uhler, N. Am. Fauna, vii, p. 262, 1893.

Gillette and Baker, Hemip. Colo., p. 27, 1895.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 179, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.

Localities: Colo., Ariz., Calif.

446. *Lygaeus lineola* Dall.

Dallas, List of Hemip., ii, p. 549, 1852.

Stål, Enum. Hemip., iv, p. 110, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.

Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

Localities: Va., Ga., Fla., Texas, N. Mex.

447. *Lygaeus tripligatus* Barber

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 510, 1914.

Locality: Fla.

448. *Lygaeus carnosulus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.

Locality: Calif.

Subgenus *Melanocoryphus* Stål

Logotype *apuanus* Rossi = *albomaculatus* Goeze

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.

Stål, Enum. Hemip., iv, p. 111, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 185, 1882.

Reuter, Revue d'Ent., iv, p. 199, 1885.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 19, 1912.

Ochrimeus Stål, Enum. Hemip., iv, p. 113, 1874.

449. *Lygaeus pusio* (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanocoryphus*.

Locality: Texas.

450. *Lygaeus obscuripennis* (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanocoryphus*.

Locality: Texas.

451. *Lygaeus nigrinervis* (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.

Distant, Biol. Centr. Am., Heter., i, p. 185, pl. 18, fig. 7, 1882.

Localities: Colo. (Neotropical.)

452. *Lygaeus bicrucis* Say

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 322, 1825; Compl. Writ., ii, p. 246, 1859.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.

Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.

Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus*.

Distant, Biol. Centr. Am., Heter., i, p. 185, pl. 16, figs. 14, 15, 1882.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189, *Melanocoryphus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Melanocoryphus*.

Gillette and Baker, Hemip., Colo., p. 27, 1895.

- Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
 Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910, *Lygus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
 Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
flavo-marginellus Stål, Freg. Eng. Resa, Ins., p. 241, 1859.
 Stål, Stet. Ent. Zeit., xxiii, p. 310, 1862.
rubescens Stål, Rio Jan. Hemip., i, p. 37, 1860.
bitransversus Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 947, 1861.
 Localities: N. J., Pa., Md., N. C., Ga., Fla., La., Mo., Kan., Colo.,
 Texas, N. Mex., Ariz., Nev., Calif.

453. *Lygaeus facetus* Say

- Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 773; Compl. Writ., i, p. 328.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
 Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875. [coryphus.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 408, 1877, *Melano-*
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326, *Melanocoryphus*.
 Gillette and Baker, Hemip. Colo., p. 27, 1895, *Melanocoryphus*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906; pt. 2, p. 159, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
 Localities: N. J., Md., Ga., Fla., La., Colo., Texas, N. Mex., Ariz.,
 Calif.

454. *Lygaeus(?) circumlitus* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 309, 1862.
 Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
 Distant, Biol. Centr. Am., Heter., i, p. 186, pl. 16, fig. 13, 1882.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
 Banks, Cat. Neare. Hemip., p. 61, 1910.
§circumcinctus Gillette and Baker, Hemip. Colo., p. 27, 1895.
 Localities: Colo.(?), Ariz.(?). (Neotropical.)
 [Probably an erroneous determination of *lateralis* Dall.]

455. *Lygaeus rubrigris* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 309, 1862.
 Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
 Distant, Biol. Centr. Am., Heter., i, p. 187, pl. 17, fig. 12, 1882.
 Locality: "Carolina" (Stål).

456. *Lygaeus lateralis* Dall.

- Dallas, List of Hemip., ii, p. 550, 1852.
 Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
 Distant, Biol. Centr. Am., Heter., i, p. 187, pl. 18, fig. 1, 1882.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
 Localities: Colo., Texas, Ariz., Calif.

457. *Lygaeus(?) rubicollis* (Uhler)

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Melanocoryphus*.
§rubicollis Banks, Cat. Neare. Hemip., p. 62, 1910.
 Localities: "Calif." (Banks). (Lower Calif.)

458. *Lygaeus mimulus* (Stål)

Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.

Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 510, 1914.

Localities: Fla., Texas.

459. *Lygaeus admirabilis* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus*.

Gillette and Baker, Hemip. Colo., p. 27, 1895, *Melanocoryphus* and *Lygaeus*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904. [(entered twice).]

Localities: Colo., N. Mex.

460. *Lygaeus californicus* Walk.

Walker, Cat. Heter., v, p. 42, 1872.

Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 540, 1901.

Locality: Calif.

Genus *Lygaeosoma* Spin.

Haplotype *sardca* Spin.

Spinola, Essai sur les Hémipt., p. 254, 1837 (1840).

Spinola, Tavola Sinot., p. 38, 1850.

Fieber, Europ. Hemip., pp. 45, 167, 1861.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 41, 42, 1872.

Walker, Cat. Heter., v, p. 37, 1872.

Stål, Enum. Hemip., iv, pp. 99, 118, 1874.

Reuter, Revue d'Ent., iv, pp. 200, 205, 1885.

Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911.

Epibomius Distant, Ann. Mag. Nat. Hist., Ser. 8, iii, p. 328, 1909. (Hap-

Distant, Fauna Br. Ind., Rhyn., v, p. 35, 1910. [otype *pusa* Dist.]

460½. *Lygaeosoma tripunctata* (Dall.)

Dallas, List of Hemip., ii, p. 559, 1852, *Aphanus*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 464, 1901.

Banks, Cat. Neare. Hemip., p. 68, 1910, *Rhyperochromus*.

Van Duzee, Check List Hemip., p. 22, No. 583, 1916, *Rhyparochromus?*

Locality: Fla.

[*Lygaeosoma adducta* Uhler MS]

Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.

Locality: Texas.

TRIBE *ORSILLINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872, Div. *Orsillaria*.

Stål, Enum. Hémipt., iv, pp. 98, 119, 1874, Div. *Orsillaria*.

Distant, Biol. Centr. Am., Heter., i, p. 189, 1882, Div. *Orsillaria*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 17, 1903, Div. *Orsillaria*.

Oshanin, Verz. Palae. Hemip., i, p. 259, 1906, Div. *Orsillaria*.

Oshanin, Kat. Palae. Hemip., p. 28, 1912, Tribe *Orsillaria*.

Nysiina Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876 (as subfamily).

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877, Subfam. *Nysiinae*.

Uhler, Check List, p. 13, 1886.

Genus **Ortholomus** StålHaplotype *punctipennis* (H. S.)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872 (as subgenus).

Stål, Enum. Hemip., iv, p. 120, 1874 (as subgenus).

Baker, Invert. Pacifica, i, pp. 134, 138, 1906.

Oshanin, Kat. Palae. Hemip., p. 29, 1912 (as subgenus).

Orsillaxis Uhler, Check List, p. 14, 1886 (as MS name).461. **Ortholomus longiceps** (Stål)Stål, Enum. Hemip., iv, p. 120, 1874, *Nysius*.

Baker, Invert. Pacifica, i, p. 139, 1906.

Van Duzee, Can. Ent., xl, p. 110, 1908; xlv, p. 319, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.

†*scolopax* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876, *Orsillus*.†*fraterculus* (Provancher), Pet. Faune Ent. Can., iii, p. 61, 1885, *Harmostes*.†*producta* Uhler, Check List, p. 14, 1886, *Orsillaxis*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894, *Orsillaxis*.†*providus* (Uhler), Proc. Zool. Soc. Lond. for 1894, p. 182, *Nysius* (in part).Wirtner, Ann. Carn. Mus., iii, p. 192, 1904, *Nysius*.Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910, *Nysius*.Smith, Cat. Ins. N. J., edn. 3, p. 141, 1910, *Nysius*.†*jamaicensis* (Distant), Ann. Mag. Nat. Hist., Ser. 7, vii, p. 539, 1901,Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907. [*Nysius*.Bueno, Jl. N. Y. Ent. Soc., xvii, p. 229, 1908, *Nysius*.*a.* var. **cooki** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., S. C.,
Fla., Wis., Ill., Mo., Neb., Kan., Texas, Calif.462. **Ortholomus scolopax** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 775; Compl. Writ., i, p.

Stål, Enum. Hemip., iv, p. 122, 1874, *Belanochilus*? [330, *Lygacus*.Uhler, Check List, p. 14, 1886, *Orsillus*.Uhler, Proc. Zool. Soc. Lond. for 1894, p. 182, *Nysius*.?Gillette and Baker, Hemip. Colo., p. 22, 1895, *Orsillus*.Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 539, 1901, *Nysius*.Banks, Cat. Neare. Hemip., p. 63, 1910, *Orsillus*.

Localities: Ind., Ia., ? Colo., Calif.

463. **Ortholomus nevadensis** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Localities: Nevada, Calif.

464. **Ortholomus arphnoides** Bak.

Baker, Invert. Pacifica, i, p. 140, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Locality: Calif.

465. **Ortholomus uhleri** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.

Locality: Wis.

Genus **Nysius** Dall.Logotype *thymi* (Wolff)

- Dallas, List of Hemip., ii, pp. 531, 551, 1852.
 Stål, Freg. Eug. Resa, Ins., p. 242, 1859.
 Fieber, Europ. Hemip., pp. 45, 168, 1861.
 Stål, Of. Vet. Akad. Forh., xix, pp. 210, 212, 1862.
 Thomson, Opusc. Ent., Fasc. ii, p. 182, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872.
 Stål, Enum. Hemip., iv, p. 119, 1874 (see. cc and aa).
 Distant, Biol. Centr. Am., Heter., i, p. 190, 1882.
 Horvath, Revue d'Ent., ix, p. 185, 1890. (Key to European species.)
 Baker, Invert. Pacifica, i, p. 134, 1906. [pseudotype.]
 Distant, Fauna Br. Ind., Rhyn., ii, p. 17, 1903. (Names *zelandicus* Dall.
 Horvath, Ann. Mus. Natl. Hung., vii, p. 11, 1910.
 Oshanin, Kat. Palae. Hemip., p. 28, 1912. (Names *thymi* type.)
 †*Heterogaster* Spinola, Tavola Sinot., p. 38, 1850.
 †*Artheneis* Flor, Rhyn. Livl., i, p. 287, 1860 (as subgen. of *Cymus*).
 Kirkaldy, Can. Ent., xli, p. 31, 1909. (Names *cymoides pseudotype*.)
Macroparius Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872 (as sub-
 [genus.]

466. **Nysius californicus** Stål

- Stål, Freg. Eug. Resa, Ins., p. 242, 1859.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.
 Stål, Enum. Hemip., iv, p. 120, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 409, 1877.
 Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.
 Baker, Invert. Pacifica, i, pp. 134, 135, 1906.
 Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
 Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
 †*providus* Baker, Invert. Pacifica, i, p. 135, 1906 (as variety).

a. var. alabamensis Bak.

- Baker, Invert. Pacifica, i, p. 135, 1906.
 Localities: Md., N. C., S. C., Ga., Fla., Ala., Miss., Kan., Colo.,
 Dak., Utah, Texas, N. Mex., Ariz., Nevada, Calif., Oregon,
 Wash. (Mexico.)

467. **Nysius inaequalis** Uhl.

- Uhler, Proc. Zool. Soc. Lond. for 1894, p. 183.
 ?Baker, Invert. Pacifica, i, p. 139, 1906.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 Localities: Fla. (West Indies.)

468. **Nysius thymi** (Wolff)

- Wolff, Icon. Cimic., iv, p. 149, fig. 143, 1804, *Lygacus*.
 Fallén, Monog. Cimic., p. 63, 1807, *Lygacus*.
 Zetterstedt, Fauna Lapp., p. 469, 1828, *Lygacus*.

- Fallén, Hemip. Suec., Cimic., p. 49, 1829, *Lygaeus*.
 Schilling, Beitr. z. Ent., i, p. 85, pl. 3, fig. 9, 1829, *Heterogaster*.
 Herrich-Schaeffer, Nomen. Ent., p. 46, 1835, *Heterogaster*.
 Curtis, Br. Ent., xiii, pl. 597, 1836, *Heterogaster*.
 Zetterstedt, Ins. Lapp., Column 262, 1838 (1840), *Lygaeus*.
 Dallas, List of Hemip., ii, p. 552, 1852.
 Stål, Stet. Ent. Zeit., xix, p. 179, 1858.
 Fieber, Europ. Hemip., p. 169, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 213, 1862.
 Douglas and Scott, Br. Hemip., p. 226, 1865.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872.
 Horvath, Monog. Lygaeidae, p. 22, 1875.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878.
 Mulsant and Rey, Punaise de Fr., v, p. 48, 1879.
 Reuter, Revue Synon., p. 186, No. 124, 1888.
 Horvath, Revue d'Ent., ix, pp. 186, 188, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
 Gillette and Baker, Hemip. Colo., p. 22, 1895.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
 Van Duzee, Can. Ent., xl, p. 110, 1908.
 †ericae (Flor), Rhyn. Livl., i, p. 292, 1860, *Cymus*.
 †punctipennis Thomson, Opusc. Ent., ii, p. 182, 1870.
 †maculatus Douglas and Scott, Ent. Mo. Mag., viii, p. 27, 1870.
 †saint Cyri Provancher, Nat. Can., iv, p. 77, 1872.
 †groenlandicus Provancher, Pet. Faune Ent. Can., iii, p. 70, 1886.
 Van Duzee, Can. Ent., xxi, p. 3, 1889.
 †angustatus Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
 Localities: Quebec, Ont., Me., Mass., N. Y., Md.(?), Colo., Manitoba, Br. Col., Alaska.

469. *Nysius groenlandicus* (Zett.)

- Zetterstedt, Ins. Lapp., column 262, 1838 (1840), *Lygaeus*.
 Stål, Enum. Hemip., iv, p. 121, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876.
 Horvath, Revue d'Ent., ix, p. 186, 1890.
 Heidemann, Proc. Ent. Soc. Wash., ii, p. 505, 1900.
 Horvath, Ann. Mus. Natl. Hung., viii, p. 14, 1910.
 Localities: Greenland, Labrador, Hudson's Bay Terr., Br. Am., Alaska. (Iceland.)

470. *Nysius ericae* (Schill.)

- Schilling, Beitr. z. Ent., i, p. 86, pl. 7, fig. 10, 1829, *Heterogaster*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 46, 1835, *Heterogaster*.
 Horvath, Revue d'Ent., ix, p. 186, 1890.
 Oshanin, Verz. Palae. Hemip., i, p. 262, 1906.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 78, 1910.
 Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 Essig, Inj. Ben. Ins Calif., Edn. 2, p. 207, 1915.
 angustatus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 409, 1877.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.

Reuter, Berl. Ent. Zeit., xxix, p. 43, 1885.

Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.

Gillette and Baker, Hemip. Colo., p. 21, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

Baker, Invert. Pacifica, i, p. 135, 1906.

maculatus Fieber, Europ. Hemip., p. 168, 1861.

albidus Jakowlef, Horae Soc. Ent. Ross., iv, p. 152, 1867.

gracilis Scott, Stet. Ent. Zeit., xxxi, p. 98, 1870.

raphanus Howard, Phillips Southern Planter for 1872.

Kirkaldy, Entomol., p. 165, 1902.

destructor Riley, 5th Rept. Ins. Mo., p. 113, 1873.

a. var. **minutus** Uhler

Uhler, Hemip. Colo., p. 22, 1895.

Baker, Invert. Pacifica, i, p. 136, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Essig, Inj. Ben. Ins. Calif., Edn. 2, p. 207, 1915.

b. var. **niger** Bak.

Baker, Invert. Pacifica, i, p. 135, 1906.

Localities: Ont., Me., N. H., Mass., N. Y., N. J., Pa., Ohio, Dak.,

Kan., Colo., Texas, Nev., Calif., Wash.

471. **Nysius coloradensis** Bak.

Baker, Invert. Pacifica, i, pp. 135, 136, 1906.

a. var. **grandis** Bak.

Baker, Invert. Pacifica, i, p. 136, 1906.

Locality: Colo.

472. **Nysius strigosus** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.

Horyath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

†*senecionis* Baker, Invert. Pacifica, i, pp. 135, 136, 1906.

Localities: Colo., N. Mex., Ariz., Nev., Calif., Oregon.

Genus **Belonochilus** Uhl.

Haplotype *numenius* Say

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.

Stål, Enum. Hemip., iv, p. 122, 1874.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 386, 1893.

473. **Belonochilus numenius** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 775; Compl. Writ., i,

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.

[p. 331, *Lygacus*.

Stål, Enum. Hemip., iv, p. 122, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 394, 1878.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
 Heidemann, Proc. Ent. Soc. Wash., v, p. 11, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 166, 1909.
 Smith, Cat. Ins. N. J., Edn., 3, p. 141, 1910.
 Heidemann, Proc. Ent. Soc. Wash., xiii, p. 133, 1911 (egg).
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
 Localities: N. Y., N. J., Pa., Md., D. C., Ohio, Ill., Ariz., Calif.

474. **Belonochilus koreschanus** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.
 Van Duzee, Can. Ent., xli, p. 372, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 Locality: Fla.

Genus **Orsillacis** Barb.

Haplotype *producta* Barb.

- Barber, Jl. N. Y. Ent. Soc., xxii, p. 169, 1914.

475. **Orsillacis producta** Barb.

- Barber, Jl. N. Y. Ent. Soc., xxii, p. 169, 1914.
 [Not *Orsillacis producta* of Uhler, Check List., p. 14, 1886.]
 Locality: Ariz.

Subfamily **CYMINAE** Stål

- Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862, *Cymida*.
 Stål, Hemip. Afr., ii, pp. 121, 149, 1865, *Cymida*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 37, 1872, *Cymina*.
 Stål, Enum. Hemip., iv, p. 123, 1874, *Cymina*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877, *Cyminae*.
 Berg, Hemip. Argent., p. 106, 1879, *Cymina*.
 Distant, Biol. Cent. Am., Heter., i, p. 190, 1882, *Cyminae*.
 Puton, Cat. Hémipt. Palae., Edn. 3, p. 22, 1886, Tribe *Cymini*.
 Uhler, Check List, p. 14, 1886, *Cymina*.
 Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 158, 1894, *Cymidae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 19, 1903.
 Oshanin, Verz. Palae. Hemip., i, p. 266, 1906, *Cymina*.
 Banks, Cat. Neare. Hemip., p. 58, 1910, *Cymini*.
 Oshanin, Kat. Palae. Hemip., p. 29, 1912, *Cyminae*.

TRIBE **ISCHNORRHYNCHINI** (Stål)

- Stål, Of. Vet. Akad. Forh., xxix, p. 44, 1872, Div. *Ischnorrhyncharia*.
 Stål, Enum. Hemip., iv, p. 123, 1874, Div. *Ischnorrhyncharia*.
 Distant, Biol. Centr. Am., Heter., i, p. 191, 1882, Div. *Ischnorrhyncharia*.
 Oshanin, Kat. Palae. Hemip., p. 29, 1912, Tribe *Ischnorrhyncharia*.

Genus **Ischnorrhynchus** Fieb.

Logotype *didymus* Zett. = *resedae* Panz.

- Fieber, Europ. Hemip., pp. 51, 199, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862.
 Thomson, Opusc. Ent., Fase. ii, p. 183, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.

Stål, Enum. Hemip., iv, pp. 123, 124, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 192, 1882.

Provancher, Pet. Faune Ent. Can., iii, p. 74, 1886.

†*Cymus* Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. (Gives
[*Kleidocerus* Westw., a nom. nud., as a synonym.)

Blanchard, Hist. des Ins., Hémip., p. 131, 1840 (follows Westwood).

†*Kleidocerus* (Westw., 1841), Sign. Ann. Soc. Ent. Fr., Ser. 6, v, p. 67,
[1885 (nom. nud.).

||*Lyctus* Flor, Rhyn. Livl., i, pp. 287, 294, 1860 (as subgen. of *Cymus*).

476. *Ischnorrhynchus resedae* (Panz.)

Panzer, Fauna Germ., xl, fig. 20, 1797, *Lygaeus*.

Schilling, Beitr. z. Ent., p. 89, pl. 8, fig. 5, 1829, *Heterogaster*.

Herrich-Schaeffer, Nomen. Ent., i, p. 46, 1835, *Heterogaster*.

Burmeister, Handb. d. Ent., ii, p. 292, 1835, *Cymus*.

Brullé, Hist. des Ins., ix, p. 386, 1835, *Lygaeus*.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840, *Cymus*.

Blanchard, Hist. des Ins., Hémip., p. 131, 1840, *Cymus*.

Costa, Cimic. Reg. Neap., Cent., ii, p. 31, 1843, *Cymus*.

Kolenati, Melet. Ent., ii, p. 92, 1845, *Cymus*.

Dallas, List of Hemip., ii, p. 586, 1852, *Cymus*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 78, 1853, *Cymus*.

Flor, Rhyn. Livl., i, p. 296, 1860, *Cymus*.

Stål, Of. Vet. Akad. Forh., xix, p. 213, 1862.

Douglas and Scott, Br. Hemip., p. 233, 1865.

Douglas and Scott, Ent. Mo. Mag., ii, p. 217, 1866.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 394, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 193, 1882.

Reuter, Revue Synon., p. 187, No. 125, 1888.

Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

Horvath, Ann. Mus. Natl. Hung., vi, p. 560, 1908.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

didymus (Zetterstedt), Vet. Akad. Handl. for 1819, p. 71, *Lygaeus*.

Fallén, Hemip. Suec., Cimic., p. 50, 1829, *Lygaeus*.

Fieber, Europ. Hemip., p. 199, 1861.

Stål, Enum. Hemip., iv, p. 124, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876; iii, p. 409, 1877.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.

Provancher, Pet. Faune Ent. Can., iii, p. 74, 1886.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.

Gillette and Baker, Hemip. Colo., p. 22, 1895.

puncticollis (Fallén), Hemip. Suec. Cimic., p. 95, 1829, *Phytocoris*.

†*geminatus* Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910.

Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md.,
D. C., Ga., Mich., Ill., Kan., Colo., Utah, Texas, Calif., Wash.,
Manitoba. (Palearctic.)

477. *Ischnorrhynchus geminatus* (Say)

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p. Horvath, Ann. Mus. Natl. Hung., vi, p. 560, 1908. [330, *Lygaeus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

†*resedae* (Uhler), Proc. Ent. Soc. Phila., i, p. 23, 1861, *Cymus*.

Localities: Quebec, Mass., N. Y., D. C., Fla., Ind., Mo.

478. *Ischnorrhynchus franciscanus* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 252, 1859, *Cymus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Locality: Calif.

479. *Ischnorrhynchus salvini* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 194, pl. 19, fig. 2, 1882.

Banks, Cat. Neare. Hemip., p. 59, 1910.

Localities: Texas. (Guatemala.)

480. *Ischnorrhynchus championi* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 193, pl. 19, fig. 3, 1882.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 184.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907.

Banks, Cat. Neare. Hemip., p. 59, 1910.

Localities: Texas, Calif. (Neotropical.)

Genus *Cymoninus* Bredd.

Haplotype *subunicolor* Bredd.

Breddin, Deut. Ent. Zeit., -, p. 38, 1907.

†*Ninus* Distant, Biol. Centr. Am., Heter., i, p. 191, 1882.

Distant, Fauna Brit. Ind., Rhyn., ii, p. 19, 1903.

Van Duzee, Check List Hemip., p. 19, 1916.

481. *Cymoninus notabilis* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 191, pl. 19, fig. 4, 1882, *Ninus*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 184, *Ninus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907; ix, p. 166, 1909,

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914, *Ninus*. [*Ninus*.

Localities: Fla. (Neotropical.)

TRIBE CYMINI (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872, Div. *Cymaria*.

Stål, Enum. Hemip., iv, pp. 123, 125, 1874, Div. *Cymaria*.

Distant, Biol. Cent. Am., Heter., i, p. 390, 1893, Div. *Cymaria*.

Oshanin, Kat. Palae. Hemip., p. 29, 1912, Tribe *Cymaria*.

Genus *Arphnus* Stål

Haplotype *coriacipennis* Stål

Stål, Enum. Hemip., iv, pp. 125, 126, 1876.

482. *Arphnus coriacipennis* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 247, 1859, *Orycaenus*.

Stål, Enum. Hemip., iv, p. 126, 1874.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Localities: Idaho, Utah, Calif.

Genus *Cymus* Hahn.

Logotype *clavicularis* Fall.

Hahn, Wanz. Ins., i, p. 76, 1831.

Burmeister, Handb. d. Ent., ii, p. 292, 1835 (part).

Brullé, Hist. Nat. des Ins., ix, p. 386, 1835.

Spinola, Essai sur les Hémip., p. 258, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 131, 1840.

Amyot and Serville, Hémip., p. 259, 1843.

Spinola, Tavola Sinot., p. 38, 1850.

Dallas, List of Hemip., ii, p. 586, 1851 (part).

Flor, Rhyn. Livl., i, p. 297, 1860 (as subgenus).

Fieber, Europ. Hemip., pp. 52, 203, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 211, 223, 1862.

Thomson, Opusc. Ent., Fasc. ii, p. 183, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.

Stål, Enum. Hemip., iv, pp. 125, 126, 1874.

Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.

Distant, Biol. Centr. Am., Heter., i, p. 390, 1893.

Oshanin, Kat. Palae. Hemip., p. 29, 1912. (Names *clavicularis* type.)

[*Kleidocerys* Westw., MS] Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
[(Synonym).]

483. *Cymus luridus* Stål

Stål, Enum. Hemip., iv, p. 126, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877.

Van Duzee, Can. Ent., xxi, p. 3, 1889.

Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.

Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

Bueno in Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Cymus sp., Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.

Localities: Ont., Me., Mass., N. Y., N. J., Pa., Colo., Calif.

484. *Cymus angustatus* Stål

Stål, Enum. Hemip., iv, p. 126, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.

Van Duzee, Psyche, v, p. 27, 1888.

Van Duzee, Can. Ent., xxi, p. 3, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

†*tabida* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908, *Cymodema*.

Localities: Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga., Fla.,
Kan., Colo., Texas.

485. *Cymus discors* Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 559, 1908.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910.

Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Van Duzee, Can. Ent., xlv, p. 319, 1912.

†*clarivulus* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878 (spelled
Van Duzee, Can. Ent., xxi, p. 3, 1889. [clarulus.])

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

Van Duzee, Can. Ent., xl, p. 110, 1908.

†*tabidus* Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.

†*luridus* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908.

Localities: Quebec, Ont., Me., N. H., Vt., N. Y., N. J., Pa.

486. *Cymus bellus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 167, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

Locality: Fla.

487. *Cymus breviceps* Stål

Stål, Enum. Hemip., iv, p. 127, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 166, 1909.

Van Duzee, Can. Ent., xli, p. 372, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

†*tabida* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876, *Cymodema*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893, *Cymodema*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894, *Cymodema*.

?Gillette and Baker, Hemip. Colo., p. 23, 1895.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908, *Cymodema*.

eriquum (Horvath), Ann. Mus. Natl. Hung., vi, p. 559, 1908, *Cymodema*.

Bueno in Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910, *Cymodema*.

Localities: N. J., Md., D. C., N. C., Fla., Colo., Utah., Calif.

(Mexico.)

488. *Cymus guatemalanus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 390, pl. 34, fig. 19, 1893.

Localities: Ariz. (Guatemala.)

Subfamily BLISSINAE (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Blissida*.

Stål, Hemip. Afr., ii, pp. 120, 121, 1865, *Blissida*.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 37, 44, 1872, *Blissina*.

Stål, Enum. Hemip., iv, p. 129, 1874, *Blissina*.

Berg, Hemip. Argent., p. 103, 1879, *Blissina*.

Distant, Biol. Centr. Am., Heter., i, p. 195, 1882, *Blissinae*.

Puton, Cat. Hémip. Palae., Edn. 3, p. 22, 1886, Tribe *Blissini*.

Uhler, Check List., p. 14, 1886, *Blissina*.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 162, 1894, *Blissidae*.

- Distant, Fauna Br. Ind., Rhyn., ii, p. 21, 1902, *Blissinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 270, 1906, *Blissina*.
 Banks, Cat. Neare. Hemip., p. 58, 1910, *Blissini*.
 Oshanin, Kat. Palae. Hemip., p. 29, 1912, *Blissinae*.

Genus *Ischnodemus* Fieb.

Type *sabuleti* Fall.

- Fieber, Weit. Beit. z. Nat. u. Heilk., i, p. 337, 1836.
 Fieber, Europ. Hemip., pp. 44, 163, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862.
 Thomson, Opusc. Ent., Fasc. ii, p. 182, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.
 Walker, Cat. Heter., v, p. 126, 1872.
 Stål, Enum. Hemip., iv, pp. 129, 130, 1874.
 Distant, Biol. Centr. Am., Heter., i, p. 195, 1882.
 Reuter, Revue d'Ent., iv, p. 207, 1885.
 Berg, Ann. Mus. Natl. Buen. Aires, vii, p. 87, 1900.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 27, 1902.
 Van Duzee, Can. Ent., xli, p. 374, 1909. (Key.)
 Horvath, Ann. Mus. Natl. Hung., x, p. 608, 1912.
Micropus Spinola, Essai sur les Hémipt., p. 218, 1837 (1840) (haplotype)
 Dallas, List of Hemip., ii, p. 582, 1852. [genei Spin.)
 Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 24, 1857 (monograph).
 †*Blissus* Stål, Hemip. Afr., ii, p. 122, 1865 (section *a* only).
 Thoms Gistel, Naturges. d. Thierr., p. x, 1848.
 Kirkaldy, Entomol., xxxix, p. 248, 1906.
Romicpus Reed, Rev. Chil. Hist. Nat., iv, p. 121, 1900.

489. *Ischnodemus falicus* (Say)

- Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl. Writ., i, p.
 [331, *Lygaeus*.
 Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 27, pl. 2, fig. 5, 1857, *Micropus*.
 Stål, Enum. Hemip., iv, p. 131, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
 Van Duzee, Can. Ent., xli, p. 374, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
punctatus Provancher, Nat. Can., iv, p. 76, 1872, *Rhyparochromus*.
 Localities: N. Y., N. J., Pa., Md., Wis., Dak., Kan.(?), La.(?),
 Texas.

490. *Ischnodemus rufipes* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 167, 1909.
 Van Duzee, Can. Ent., xli, p. 375, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 Localities: Fla.

491. *Ischnodemus praecultus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 196, pl. 19, fig. 7, 1882.
 Van Duzee, Can. Ent., xli, p. 375, 1909.
 Localities: Ariz. (Centr. Am.)

492. *Ischnodemus lobatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.

Van Duzee, Can. Ent., xli, p. 375, 1909.

Locality: Fla.

493. *Ischnodemus slossoni* Van D.

Van Duzee, Ent. News, xx, p. 233, 1909.

Van Duzee, Can. Ent., xli, p. 375, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

Localities: N. C., Fla.

494. *Ischnodemus conicus* Van D.

Van Duzee, Ent. News, xx, p. 234, 1909.

Van Duzee, Can. Ent., xli, p. 375, 1909.

Localities: Texas.

495. *Ischnodemus badius* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 168, 1909.

Van Duzee, Can. Ent., xli, p. 375, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

Locality: Fla.

Genus *Blissus* Burm.Haplotype *hirtulus* Burm.

Klug, Symb. Phys. Dec. v, pl. 43, fig. 10, 1830 (apparently a nomen nudum).

Burmeister, Handb. d. Ent., ii, p. 290, 1835 (auct. Klug).

Dallas, List of Hemip., ii, p. 583, 1852 (auct. Klug).

Stål, Hemip. Afr., ii, p. 122, 1865 (auct. Klug and Burm.).

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 45, 1872 (auct. Klug).

Stål, Enum. Hemip., iv, pp. 130 (auct. Klug), 132 (auct. Burm.), 1874.

Distant, Biol. Centr. Am., Heter., i, p. 196, 1882 (auct. Burm.).

Provancher, Pet. Faune Ent. Can., iii, p. 76, 1886 (auct. Burm.).

Kirkaldy, Entomol., xxxiv, p. 176, 1901 (auct. Klug).

Distant, Fauna Br. Ind., Rhyn., ii, p. 28, 1903.

Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911 (auct. Burm.).

496. *Blissus leucopterus* (Say)

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p. 329, *Lygaeus*.

Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv (for 1855), p. 509, 1856,

[*Micropus*.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 31, pl. 2, fig. 11, 1857, *Micropus*.

Riley, 2d Rept. Nox. Ins. Mo., p. 15, 1870, *Micropus*.

Walker, Cat. Heter., v, p. 127, 1872, *Ischnodemus*.

Stål, Enum. Hemip., iv, p. 133, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 392, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 196, 1882.

Provancher, Pet. Faune Ent. Can., iii, p. 76, 1886.

Van Duzee, Can. Ent., xviii, p. 209, 1886; xxi, p. 3, 1889.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 185.

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
 Webster, U. S. Dept. Agr., Bur. Ent., Bul. 69, 1907.
 Morrill, U. S. Dept. Agr., Bur. Ent., Cire. 113, 1909.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907; ix, p. 169, 1909.
 Kelly and Parks, U. S. Dept. Agr., Bur. Ent., Bul. 95, pt. 3, 1911.
 Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
 Headlee and McColloch, Kans. Agr. Exp. Sta., Bul. 191, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
 McCulloch, Ent. News, xxvi, p. 147, 1915 (egg parasite).
 Webster, U. S. Dept. Agr., Farmers' Bul. 657, 1915.
 Essig, Inj. Ben. Ins. Calif., Edn. 2, p. 208, 1915.

immarginatus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 522, 1856
 [(as var.).

dimidiatus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

fulvivenosus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

albivenosus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

apterus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 (as var.).

basalis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 (as var.).

nigricornis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

femoratus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

rufipedis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856
 [(as var.).

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Va.,
 N. C., Fla., Ohio, Ind., Mich., Ill., Wis., Mo., Neb., Kan., Minn.,
 Colo., Texas, Calif.

497. *Blissus hirtus* Montd.

Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 405, 1893.

Parshley, Psyche, xxi, p. 145, 1914.

Localities: Me., Pa.

Subfamily Geocorinae (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 212, 1862, *Geocorida*.

Stål, Hemip. Afr., ii, pp. 121, 142, 1865, *Geocorida*.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 38, 45, 1872, *Geocorina*.

Stål, Enum. Hemip., iv, p. 133, 1874, *Geocorina*.

Berg, Hemip. Argent., p. 105, 1879, *Geocorina*.

Distant, Biol. Centr. Am., Heter., i, p. 197, 1882, *Geocorinae*.

Puton, Cat. Hémipt. Palae., Edn. 3, p. 22, 1886, Tribe *Geocorini*.

Uhler, Check List, p. 14, 1886, *Geocorina*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 29, 1903, *Geocorinae*.

Oshanin, Verz. Palae. Hemip., i, p. 276, 1906, *Geocorina*.

Banks, Cat. Neare., Hemip., p. 68, 1910, *Geocorini*.

Oshanin, Kat. Palae. Hemip., p. 30, 1912, *Geocorinae*.

Genus **Geocoris** Fall.Logotype *grylloides* Linn.

- Fallén, Spec. Nov. Hemip. Disp., p. 10, 1814.
 Fallén, Hemip. Suec., Cimic., p. 69, 1829.
 Herrich-Schaeffer, Nomen. Ent., pp. 36, 47, 1835.
 Stål, Of. Vet. Akad. Forh., xix, p. 224, 1862.
 Stål, Hemip. Afr., ii, p. 143, 1865.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 46, 1872.
 Stål, Enum. Hemip., iv, p. 134, 1874.
 Distant, Biol. Centr. Am., Heter., i, p. 197, 1882.
 Provancher, Pet. Faune Ent. Can., iii, p. 85, 1886.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 29, 1903. (Names *megacephalus* pseudo-Oshanin, Kat. Palae. Hemip., p. 30, 1912. (Names *grylloides* type.) [type.]
 McAtee, Proc. Biol. Soc. Wash., xxvii, p. 127, 1914.
 †Salda Latreille, Fam. Nat. Règ. Anim., p. 422, 1825.
 Latreille in Cuvier, Règ. Anim., Edn. 2, v, p. 198, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 35, 1832.
 Brullé, Hist. des Ins., ix, p. 386, 1835.
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836.
 Spinola, Essai sur les Hémip., p. 227, 1837 (1840).
 Guerin, Icon. Règn. Anim., p. 347, 1842.
 Spinola, Tavola Sinot., p. 38, 1850.
 Ophthalmicus Schilling, Beit. z. Ent., i, p. 62, 1829.
 Hahn, Wanz. Ins., i, p. 85, 1831.
 Burmeister, Handb. d. Ent., ii, p. 291, 1835.
 Herrich-Schaeffer, Wanz. Ins., iv, p. 21, 1839.
 Blanchard, Hist. des Ins., Hémip., p. 234, 1840.
 Amyot and Serville, Hémip., p. 260, 1843.
 Fieber, Ent. Monog., p. 112, 1844.
 Dallas, List of Hemip., ii, p. 583, 1852.
 Flor, Rhyn. Livl., i, p. 304, 1860.
 Fieber, Europ. Hemip., pp. 46, 174, 1861.

498. **Geocoris punctipes** (Say)

- Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl. Writ., i, p. 336, *Salda*.
 Stål, Enum. Hemip., iv, p. 135, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 198, pl. 18, fig. 14, 1882.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
 Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 224, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.
 Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
 Van Duzee, Trans. San Diego. Soc. Nat. Hist., ii, p. 8, 1914.
 McAtee, Proc. Biol. Soc. Wash. xvii, p. 130, 1914.
 luniger (Fieber), Wien. Ent. Monat., v, p. 269, 1861, *Ophthalmicus*.
 †*punctipes* Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 222, 1908 (error for
 [*punctipes*].)
 Localities: N. J., Md., D. C., S. C., Fla., Ala., La., Colo., Okl., Texas,
 Ariz., Calif. (Mexico.)

a. var. **paulus** McAtee.

- McAtee, Proc. Biol. Soc. Wash., xvii, p. 130, 1914.
 Locality: Calif.

499. *Geocoris bullatus* (Say)

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, Stål, Enum. Hemip., iv, p. 136, 1874. [p. 336, *Salda*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876; iii, p. 409, 1877.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1327.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 85, 1886.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 218, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 131, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

griseus (Dallas), List of Hemip., ii, p. 585, 1852, *Ophthalmicus*.

Stål, Enum. Hemip., iv, p. 137, 1874.

Gillette and Baker, Hemip. Colo., p. 23, 1895.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 220, 1908.

a. var. *borealis* (Dall.)

Dallas, List of Hemip., ii, p. 385, 1852, *Ophthalmicus*.

Stål, Enum. Hemip., iv, p. 137, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 199, pl. 18, fig. 17, 1882.

Van Duzee, Can. Ent., xxi, p. 3, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.

Gillette and Baker, Hemip. Colo., p. 23, 1895.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 132, 1914.

b. var. *obscuratus* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 220, 1908.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 132, 1914.

c. var. *discopterus* Stål

Stål, Enum. Hemip., iv, p. 136, 1874.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 131, 1914.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Md., Ala., Fla., Ill., Colo., Manitoba, Dak., Utah, Calif.

500. *Geocoris pallens* Stål

Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854.

Stål, Freg. Eug. Resa, Ins., p. 250, 1859.

Stål, Enum. Hemip., iv, p. 136, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.

Wheeler's Rept. Chief Eng. for 1877, p. 1326.

?Gillette and Baker, Hemip. Colo., p. 23, 1895 (and as *Ninyas pallens* on p. 23).

McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

a. var. *decoratus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 410, 1877.

Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.

Gillette and Baker, Hemip. Colo., p. 23, 1895.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 221, 1908.

Van Duzee, Univ. Calif. Publ. Ent. Tech. Bul., i, p. 234, 1916.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.

†*howardi* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

b. var. solutus Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 223, 1908.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.

Localities: Kan., Colo., Utah, N. Mex., Texas, Ariz., Calif.

501. *Geocoris scudderi* Stål

Stål, Enum. Hemip., iv, p. 135, 1874.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 134, 1914.

Locality: Texas.

502. *Geocoris uliginosus* (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl. Writ., i, p. 337, *Salda*.

Stål, Enum. Hemip., iv, p. 136, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876; iii, p. 410, 1877.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 226, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 170, 1909.

Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.

†*niger* (Dallas), List of Hemip., ii, p. 586, 1852, *Ophthalmicus*.

†*fuliginosus* Gillette and Baker, Hemip. Colo., p. 23, 1895.

†*ater* Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.

a. var. howardi Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 229, 1908.

b. var. speculator Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 227, 1908.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.

c. var. lateralis (Fieb.)

Fieber, Wien. Ent. Monats., v, p. 271, 1861, *Ophthalmicus*.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.

d. var. limbatus Stål

Stål, Enum. Hemip., iv, p. 136, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.

Gillette and Baker, Hemip. Colo., p. 23, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 136, 1914.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md.,

D. C., S. C., Ga., Fla., Miss., Ohio, Mich., Ill., Mo., Dak., Mani-

toba, Kan., Colo., Texas, Wash., Br. Col.

503. *Geocoris duzei* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 231, 1908.

Locality: Colo.

504. *Geocoris atricolor* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 228, 1908.

McAtee, Proc. Biol. Soc. Wash., xvi, p. 228, 1908.

Localities: Wyom., Colo., Utah, Texas, Calif.

505. *Geocoris carinatus* McAtee

McAtee, Proc. Biol. Soc. Wash., xvii, p. 134, 1914.

Locality: Calif.

506. *Geocoris lividipennis* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 311, 1862.

Stål, Enum. Hemip., iv, p. 137, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 198, pl. 17, fig. 27, 1882.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.

Localities: N. Mex., Br. Col.(?). (Mexico.)

Genus *Isthmocoris* McAteeOrthotype *picea* Say

McAtee, Proc. Biol. Soc. Wash., xvii, p. 127, 1914.

507. *Isthmocoris piceus* (Say)

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. [336, Salda.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Ophthalmicus*.Stål, Enum. Hemip., iv, p. 136, 1874, *Geocoris*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Geocoris*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878, *Geocoris*.Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Geocoris*.Montandon, Ann. Mus. Natl. Hung., v, p. 90, 1907, *Germalus?*Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908; xviii, p. 29, 1910, *Geocoris*.Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910, *Geocoris*.

McAtee, Proc. Biol. Soc. Wash., xvii, p. 129, 1914.

Localities: Mass., Conn., N. Y., N. J., Pa., Md., Ill., Wis., Colo.

508. *Isthmocoris tristis* (Stål)Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854, *Geocoris*.Stål, Freg. Eugen. Resa, Ins., p. 249, 1859, *Geocoris*.Stål, Enum. Hemip., iv, p. 136, 1874, *Geocoris*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876, *Geocoris*.Montandon, Ann. Mus. Natl. Hung., v, p. 90, 1907, *Germalus?*

McAtee, Proc. Biol. Soc. Wash., xvii, p. 129, 1914.

Localities: Calif.

509. *Isthmocoris imperialis* (Dist.)Distant, Biol. Centr. Am., Heter., i, p. 197, pl. 18, fig. 18, 1882, *Geocoris*.

Barber, Brookl. Inst. Sci. Bul., i, p. 275, 1906.

Localities: Texas. (Centr. Am.)

Subfamily **HETEROGASTRINAE** (Stål)Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 40, 62, 1872, *Heterogastrina*.Stål, Enum. Hemip., iv, p. 168, 1874, *Heterogastrina*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876, *Heterogastrina*.Uhler, Check List, p. 15, 1886, *Heterogastrina*.Distant, Biol. Centr. Am., Heter., i, p. 411, 1893, *Heterogastrinae*.Lethierry and Severin, Cat. Génl. Hémipt., ii, p. 176, 1894, *Heterogastridae*.Distant, Fauna Br. Ind., Rhyn., ii, p. 35, 1902, *Heterogastrinae*.Oshanin, Verz. Palae. Hemip., i, p. 289, 1906, *Heterogastrina*.

- Banks, Cat. Neare. Hemip., p. 60, 1910, *Heterogastrini*.
 Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Heterogastrinae*.
Phygadeida Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.

Genus **Heterogaster** Schill.

Logotype *urticae* Fabr.

- Schilling, Beit. z. Ent., i, p. 84, 1829.
 Hahn, Wanz. Ins., i, p. 72, 1831.
 Herrich-Schaeffer, Nomen, Ent., i, pp. 36, 46, 1835.
 Burmeister, Handb. d. Ent., ii, p. 293, 1835.
 Curtis, Br. Ent., xiii, pl. 597, 1836.
 Blanchard, Hist. des Ins. Hémip., p. 131, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Suppl., p. 122, 1840.
 Spinola, Tavola Sinot., p. 38, 1850.
 Dallas, List of Hemip., ii, p. 556, 1852.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 190, 200, 1853.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.
 Stål, Enum. Hemip., iv, p. 168, 1874.
 Oshanin, Kat. Palae. Hemip., p. 31, 1912 (names *urticae* type).
Phygas Fieber, Weit. Beit. Nat. u. Heilk., i, p. 348, 1836.
Phygadicus Fieber, Europ. Hemip., p. 52, 1860 (unnecessary n.n. for
 Flor, Rhyn. Livl., i, p. 301, 1860. [*Heterogaster* Schill.).
 Fieber, Europ. Hemip., p. 201, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.
 Douglas and Scott, Br. Hemip., p. 221, 1865.

510. **Heterogaster behrensii** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876, *Phygadicus*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Phygadicus*.
 Localities: Utah, Calif.

Subfamily **PACHYGRONTHINAE** (Stål)

- Stål, Hemip. Afr., ii, pp. 121, 145, 1865, *Pachygronthida*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 39, note, 1872, *Pachygronthina*.
 Stål, Enum. Hemip., iv, p. 138, 1874, *Pachygronthina*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Pachygronthina*.
 Distant, Biol. Centr. Am., Heter., i, p. 199, 1882, *Pachygronthinae*.
 Puton, Cat. Hémip. Palae., p. 24, 1886, Tribe *Pachygronthini*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 179, 1894, *Pachygronthidae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 39, 1903 *Pachygronthinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 292, 1906, *Pachygronthina*.
 Banks, Cat. Neare. Heter., p. 59, 1910, *Pachygronthini*.
 Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Pachygronthinae*.
Teracriina Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 39, 47, 1872.

Genus **Phlegyas** Stål

Haplotype *annulicrus* Stål

- *Stål, Hemip. Afr., ii, p. 145, 1865.
 Stål, Berl. Ent. Zeit., xiii, p. 230, 1869.
 Stål, Enum. Hemip., iv, p. 138, 1874.
 Berg, Nova Hemip., p. 73, 1892.

Distant, Fauna Br. Ind., Rhyn., ii, p. 39, 1903.

||*Helonotus* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876 (haplotype
Provancher, Pet. Faune Ent. Can., iii, p. 71, 1886. [*abbreviatus* Uhl.).

Peliopelta Uhler, Check List, p. 15, 1886 (n.n. for *Helonotus* Uhl.).

Distant, Biol. Centr. Am., Heter., i, p. 411, 1893. [p. 463, 1888.

Helonotocoris Lethierry, Ann. Mus. Civ. Hist. Nat. Genova, Ser. 2, vi,

511. *Phlegyas annulicrus* Stål

Stål, Berl. Ent. Zeit., xiii, p. 230, 1869.

Stål, Enum. Hemip., iv, p. 138, 1874 (as new).

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.

Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 178, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914 (mention).

§*annulicornis* Banks, Cat. Neare. Hemip., p. 60, 1910 (part).

Localities: N. J., "Carolina," Fla., Kan., Utah, Texas, Ariz.,
Calif.

512. *Phlegyas tropicalis* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 411, pl. 36, fig. 5, 1893, *Peliopelta*.

Banks, Cat. Neare. Hemip., p. 60, 1910.

Localities: "Texas" (Banks). (Mexico.)

513. *Phlegyas abbreviatus* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 313, 1876; iii, p. 412, 1877, *Helonotus*.

Provancher, Pet. Faune Ent. Can., iii, p. 71, 1886, *Helonotus*.

Van Duzee, Can. Ent., xxi, p. 3, 1889, *Peliopelta*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Peliopelta*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Peliopelta*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

Bueno, Jl. N. Y., Ent. Soc., xviii, p. 29, 1910.

Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.

‡*annulicrus* Berg, Nova Hemip., p. 73, 1892.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 179, 1894 (part).

Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.

§*annulicornis* Banks, Cat. Neare. Hemip., p. 60, 1910 (part).

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
Md., D. C., Va., N. C., Ga., Mich., Ill., Mo., Neb., Colo.

Genus *Oedancala* Am. & Serv.

Haplotype *dorsilinea* Am. & Serv.

Amyot and Serville, Hémip., p. 258, 1843.

Stål, Hemip. Afr., ii, pp. 146, 147, 1865.

Stål, Enum. Hemip., iv, pp. 138, 139, 1874.

Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.

514. *Oedancala dorsilinea* Am. & Serv.

Amyot and Serville, Hémip., p. 258, pl. 12, fig. 6, 1843.

Stål, Enum. Hemip., iv, p. 139, 1874.

?Berg, Hemip. Argent., p. 107, 1879.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 170, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

†*crassimana* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.

†*dorsalis* Berg, Nova Hemip., p. 74, 1892.

Localities: N. J., Md., Ga., Fla., Texas. (? South America.)

515. *Oedancala dorsalis* (Say)

Say, Heter. N. Harm., p. 17, 1832; Fitch reprint, p. 779; Compl. Writ., i, p.

[335, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876; iii, p. 411, 1877.

Van Duzee, Psyche, v, p. 27, 1888.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.

†*crassimana* Stål, Enum. Hemip., iv, p. 139, 1874.

Provancher, Pet. Faune Ent. Can., iii, p. 73, 1886.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910.

Smith, Cat. Ins. N. J., Edu. 3, p. 143, 1910.

†*dorsilinea* Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., S. C., Fla. (?), Ohio, Wis., Okl., Texas.

516. *Oedancala crassimana* Fabr.

Fabricius, Syst. Rhyng., p. 233, 1803, *Lygaeus*.

Herrieh-Schaeffer, Wanz. Ins., Verz., p. 147, 1853, *Pachymerus*.

Stål, Hemip. Fabr., ii, p. 122, 1869.

Localities: "Carolina" (Fabricius; not since recognized).

517. *Oedancala cubana* Stål

Stål, Enum. Hemip., iv, p. 139, 1874.

[tion of *dorsilinea*.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876 (probably a misidentification).

Localities: "Fla., Texas" (Uhler). (West Indies.)

Genus *Pachygrontha* Germ.

Type *lineata* Germ.

Germar, Silberm. Revue Ent., v, p. 152, 1837.

Stål, Hemip. Afr., ii, pp. 146, 147, 1865.

Stål, Enum. Hemip., iv, pp. 138, 139, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 200, 1882.

Distant, Fauna Br. Ind., Rhyn., ii, p. 40, 1903.

Oshanin, Kat. Palae. Hemip., p. 31, 1912. (Names *lineata* type.)

†*Pachygrontha* Spinola, Generi d'Insetti Arthr., p. 140, 1852.

Attractophora Stål, Of. Vet. Akad. Forh., x, p. 260, 1853 (invalid here).

Stål, Of. Vet. Akad. Forh., xii, p. 34, 1855. (Haplotype *fusifemur* Stål.)

Peliosoma Uhler, Proc. Acad. Nat. Sci. Phila., xii, for 1860, p. 229, 1861.

[(Haplotype *antennata* Uhl.)

Dilophos Montrouzier, Ann. Soc. Linn. Lyons, Ser. 2, xi, p. 226, 1865.

[(Type *silieri* Montr.)

518. *Pachygrontha bimaculata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 393, pl. 34, fig. 23, 1893.

Banks, Cat. Nearc. Hemip., p. 60, 1910.

Localities: Texas(?) (Banks). (Panama.)

Subfamily OXYCARENINAE (Stål)

- Stål, Of. Vet. Akad. Forh., xix, p. 212, 1862, *Orycarenida*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 39, 1872, *Orycarenina*.
 Stål, Enum. Hemip., iv, p. 141, 1874, *Orycarenina*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Orycarenina*.
 Berg, Hemip. Argent. Add., p. 55, 1884, *Orycarenina*.
 Puton, Cat. Hémip. Palae., p. 24, 1886, Tribe *Orycarenini*.
 Uhler, Check List, p. 14, 1886, *Orycarenina*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 182, 1894, *Orycarenidae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 42, 1903, *Orycareninae*.
 Oshanin, Verz. Palae. Hemip., i, p. 293, 1906, *Orycarenina*.
 Banks, Cat. Neare. Hemip., p. 59, 1910, *Orycarenini*.
 Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Orycareninae*.
Ancuropharina Berg, Hemip. Argent., p. 285, 1884.

Genus *Crophius* StålLogotype *disconotus* Say

- Stål, Enum. Hemip., iv, pp. 141, 142, 1874.
 Berg, Hemip. Argent. Add., p. 55, 1884. [disconotus type.]
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 389, 1910. (Monograph. Names
Ancuropharus Berg, Hemip. Argent., p. 285, 1879. (Haplotype *leucoenemis*
 Berg, Ann. Soc. Cient. Argent., ix, p. 13, 1880. [Berg.]

Subgenus *Crophius* Stål519. *Crophius disconotus* (Say)

- Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p.
 Stål, Enum. Hemip., iv, p. 142, 1874. [330, *Lygacus*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
 Gillette and Baker, Hemip. Colo., p. 24, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 392, 1910.
 Bueno, Can. Ent., xlv, p. 212, 1912.
 Localities: Quebec, N. H., N. Y., N. J., Pa., D. C., Ala., Mo.,
 Colo., Utah, Calif. (Mexico.)

520. *Crophius schwarzi* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 392, fig., 1910.
 Locality: Ariz.

521. *Crophius heidemanni* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 393, fig., 1910.
 Locality: Ariz.

522. *Crophius bohemani* (Stål)

- Stål, Frega. Eugen. Resa, Ins., p. 251, 1859, *Cymus*.
 Stål, Enum. Hemip., iv, p. 142, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.
 Gillette and Baker, Hemip. Colo., p. 24, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 394, 1910.
 Localities: Colo., Utah, Calif., Idaho, Ore., Vanc. Isd.

523. *Crophius angustatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 395, fig., 1910.

Localities: Utah, Calif.

524. *Crophius impressus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 396, fig., 1910.

Locality: Calif.

Subgenus *Mayana* Dist.

Logotype *costata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 387, 1893.

525. *Crophius scabrosus* (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xvii, p. 353, 1904, *Orycarenus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 397, 1910, *Crophius*.

Banks, Cat. Neare. Hemip., p. 59, 1910, *Orycarenus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

Localities: Neb., Colo., Utah, N. Mex., Calif.

Subfamily RHYPAROCHROMINAE (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Rhyparochromida*.

Stål, Hemip. Afr., ii, pp. 121, 152, 1865, *Rhyparochromida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 663, 1870, *Rhyparochromina*.

Myodochina Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 40, 50, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1872.

Stål, Enum. Hemip., iv, p. 142, 1874.

Berg, Hemip. Argent., p. 107, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 200, 1882.

Uhler, Check List., p. 14, 1886.

Banks, Cat. Neare. Hemip., p. 63, 1910, *Myodochini*.

Pachymerini Puton, Cat. Hémip. Palae., edn. 3, p. 25, 1886 (as tribe).

Aphanidae Lethierry and Severin, Cat. Génl. Hémip., ii, p. 188, 1894.

Distant, Fauna Br. Ind., Rhyn., ii, p. 45, 1902, *Aphaninae*.

Oshanin, Verz. Palae. Hemip., i, p. 303, 1906, *Aphanina*.

Oshanin, Kat. Palae. Hemip., p. 33, 1912, *Aphaninae*.

TRIBE MYODOCHINI (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872, Div. *Myodocharia*.

Stål, Enum. Hemip., iv, pp. 142, 144, 1874, Div. *Myodocharia*.

Berg, Hemip. Argent., p. 107, 1879, Div. *Myodocharia*.

Distant, Biol. Centr. Am., Heter., i, p. 200, 1882, Div. *Myodocharia*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 47, 1902, Div. *Myodocharia*.

Oshanin, Verz. Palae. Hemip., i, p. 303, 1906, Div. *Myodocharia*.

Plociomeraria Puton, Synop. Heter. Fr., i, p. 37, 1878.

Oshanin, Kat. Palae. Hemip., p. 33, 1912.

Genus *Myodocha* Latr.

Orthotype *scripes* Oliv.

* Latreille, Gen. Crust. Ins., iii, p. 126, 1807.

Latreille, Consid. Génl., pp. 255, 433, 1810 (type named).

Latreille, Fam. Règne Anim., p. 422, 1825 (French *Myodoque*).

Latreille, in Cuvier, Règne Animal, edn. 2, v, p. 199, 1829.

- Laporte, Essai Classif. Syst. Hémip., p. 32, 1832 (quotes *serripes*, etc.).
 Latreille, in Cuvier, Anim. Kingd., Lond. edn., iv, p. 164, 1836.
 Spinola, Essai sur les Hémip., p. 103, 1837 (1840).
 Amyot and Serville, Hémip., p. 256, 1843.
 Spinola, Tavola Sinot., p. 40, 1850.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 192, 212, 1853.
 Walker, Cat. Heter., v, p. 145, 1872.
 Stål, Enum. Hemip., iv, pp. 144, 146, 1874.
 Distant, Biol. Centr. Am., Heter, i, p. 203, 1882.
 Bergroth, Wien. Ent. Zeit., xxxi, p. 162, 1912.
 ‡*Myodochnus* Olivier, Eneye. Méth., viii, p. 105, 1811.
 Brullé, Hist. Nat. des Ins., ix, p. 388, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 134, 1840.
Chiroleptes Kirby in Richardson, Fauna Bor. Am., iv, p. 280, 1837. (Hap-
 [otype *raptor* Kirby = *serripes* Oliv.)
 Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 306, 1902.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 13, 1911.

526. *Myodocha serripes* Oliv.

- Latreille, Consid. Génl., p. 433, 1810 (nomen nudum here).
 Olivier, Eneye. Méth., viii, p. 106, 1811, *Myodochnus*. (Spinola says ix, p.
 Laporte, Essai Classif. Syst. Hémip., p. 33, 1832. [105.]
 Brullé, Hist. Nat. des Ins., ix, p. 388, 1835, *Myodochnus*.
 Spinola, Essai sur les Hémip., p. 103, 1837 (1840).
 Blanchard, Hist. des Ins., Hémip., p. 134, pl. 5, fig. 4, 1840.
 Amyot and Serville, Hémip., p. 258, 1843.
 Spinola, Tavola Sinot., p. 40, 1850.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 213, fig. 966, 1853.
 Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862.
 Walker, Cat. Heter., v, p. 145, 1872.
 Stål, Enum. Hemip., iv, p. 147, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876; iii, p. 411, 1877.
 Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1327.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 289, 1884.
 Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
 Parshley, Psyche, xxi, p. 146, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
 petiolata Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl.
 [Writ., i, p. 337. (Spelled *opetilatata* by error.)
 raptor Kirby in Richardson's Fauna Bor. Am., iv, p. 281, 1837. *Chiroleptes*.
 Kirby in Bethune's reprint, p. 137.
 Localities: Me., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Ohio,
 Ill., Mo., Neb., Kan., Okl., Colo., La., Texas, N. Mex.

Genus *Heraeus* Stål

Orthotype *triguttata* Guer.

- Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862.
 Stål, Hemip. Fabr., ii, p. 153, 1865.

Stål, Enum. Hemip., iv, pp. 144, 147, 1874.
 Distant, Biol. Centr. Am., Heter., i, p. 204, 1882.

527. **Heraeus triguttatus** (Guer.)

Guerin, Sagra, Hist. de Cuba, Ins., p. 400, 1857, *Lygaeus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862.
 Stål, Enum. Hemip., iv, p. 147, 1874.
 Banks, Cat. Neare. Hemip., p. 65, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
 Locality: Fla. (West Indies.)

528. **Heraeus plebejus** Stål

Stål, Enum. Hemip., iv, p. 147, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
 Localities: N. Y., N. J., Pa., D. C., Fla., Kan., Texas., Ariz.

529. **Heraeus coquilletti** Barber

Barber, Jl. N. Y. Ent. Soc., xxii, p. 165, 1914.
nitens Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
 Localities: Texas, Calif.

530. **Heraeus eximius** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 204, pl. 18, fig. 21, 1882.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
 Locality: Ariz.

Genus **Sphaerobius** Uhl.

Logotype *gracilis* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 710.

531. **Sphaerobius insignis** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Heraeus*.
 Stål, Enum. Hemip., iv, p. 147, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876; iii, p. 412, 1877, *Heraeus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 80, 1886, *Heraeus*.
 Uhler, Proc. Zool. Soc. Lond. for 1893, p. 711.
 Parshley, Psyche, xxi, p. 146, 1914.
 Localities: Me., Minn., S. D., Neb., Colo., Utah.

532. **Sphaerobius quadristriata** Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.
 Weiss, Ent. News, xxvii, p. 164, 1916.
 [? *orbicollis* Uhl. MS] Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Heraeus*.
Sphaerobius sp. nov., Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Localities: Quebec, N. J.

Genus **Ligyrocoris** StålHaplotype *silvestris* Fieb. = *luchsii* Baer.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872.

Stål, Enum. Hemip., iv, pp. 144, 145, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 201, 1882.

Provancher, Pet. Faune Ent. Can., iii, p. 79, 1886.

Van Duzee, Can. Ent., xlvi, p. 382, 1914.

533. **Ligyrocoris pseudoheraeus** Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 275, 1906.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 11, p. 51, 1913.

[May not be distinct from *Heraeus eximius* Dist.]

Localities: Ariz., Texas.

534. **Ligyrocoris setosus** (Stål)Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

[*Heraeus*.*percultus* Distant, Biol. Centr. Am., Heter., i, p. 205, pl. 19, fig. 10, 1882,

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Localities: Texas, Ariz., Calif. (Guatemala.)

535. **Ligyrocoris slossoni** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 513, 1914.

Locality: Fla.

536. **Ligyrocoris nitidulus** (Uhl.)Uhler, N. Am. Fauna, vii, p. 262, 1893, *Pamera*.Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894, *Pamera*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Localities: Colo., N. Mex., Texas, Ariz., Calif.

537. **Ligyrocoris contractus** (Say)Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 777; Compl. Writ., i, p. [332, *Pamera*.Stål, Enum. Hemip., iv, p. 145, 1874 (as var. *b* of *silvestris* of Stål).

Reuter, Berl. Ent. Zeit., xxv, p. 169, 1881.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.

Van Duzee, Can. Ent., xxxviii, p. 406, 1906; xl, p. 110, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.

†*bilobata* (Provancher), Pet. Faune Ent. Can., iii, p. 82, 1886, *Pamera*.†*balteatus*? Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.†*silvestris* Oshanin, Verz. Palae. Hemip., i, p. 308, 1906 (part).

Reuter, Ann. Soc. Ent. Belg., lvii, p. 79, 1913.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., N. Mex.

538. **Ligyrocoris diffusus** (Uhl.)Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 101, 1871, *Plociomerus*.Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Cymbogaster*.Uhler, Hayden's Surv. Terr., Rept. for 1871, pp. 407, 408, 1872, *Plociomerus*.

Van Duzee, Can. Ent., xl, p. 110, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.

Van Duzee, Can. Ent., xlv, p. 382, 1914.

543. *Perigenes constrictus* (Say)

- Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl. Writ., i, p. [332, *Pamera*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 101, 1871, *Plociomerus* (part).
 Stål, Enum. Hemip., iv, p. 146, 1874, *Ligyrocoris*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876, *Ligyrocoris* (part).
 Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1327, *Ligyrocoris*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878, *Ligyrocoris* (part).
 Provancher, Pet. Faune Ent. Can., iii, p. 79, 1886, *Ligyrocoris*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894, *Ligyrocoris*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Ligyrocoris*.
 Gillette and Baker, Hemip. Colo., p. 24, 1895, *Ligyrocoris*.
 Barber, Brookl. Inst., Sci. Bul., i, p. 275, 1906, *Ligyrocoris*.
 Van Duzee, Can. Ent., xli, p. 372, 1909.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910, *Ligyrocoris*.
 Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Ligyrocoris*.
 Van Duzee, Can. Ent., xlvi, p. 382, 1914.
fallax Heidemann, Proc. Ent. Soc. Wash., v, p. 156, 1903.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
 Localities: Ont., N. H., Mass., N. Y., N. J., D. C., Ohio, Kan., Colo.

544. *Perigenes similis* Barb.

- Barber, Brookl. Inst. Sci. Bul., i, p. 276, 1906.
 Locality: Texas.

545. *Perigenes costalis* Van D.

- Van Duzee, Can. Ent., xli, p. 373, 1909.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910.
 Localities: N. Y., Md., Ohio, Manitoba.

Genus *Paromius* Fieb.Logotype *leptopoides* Baer

- Fieber, Europ. Hemip., pp. 45, 170, 1861.
 Stål, Hemip. Afr., ii, p. 157, 1865 (as subgenus).
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872.
 Stål, Enum. Hemip., iv, p. 1874 (as subgenus).
 Puton, Synop. Hemip. Fr., i, p. 38, 1878.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 50, 1903.
 Oshanin, Kat. Palae. Hemip., p. 33, 1912 (cites *leptopoides* as type).
 ||*Stenocoris* Rambur, Fauna Ent. Andal., p. 139, 1842 (type *gracilis* Ramb.).

546. *Paromius longulus* (Dall.)

- Dallas, List of Hemip., ii, p. 578, 1852, *Rhyparochromus*.
 Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamcra*.
 Distant, Biol. Centr. Am., Heter., i, p. 206, pl. 17, fig. 26, 1882, *Pamera*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 512, 1914.
 Localities: N. C., S. C., Ga., Fla., Miss., La., Texas. (Neotropical.)

Genus *Orthaea* Dall.*Logotype consuta* Dall.

Dallas, List of Hemip., ii, p. 580, 1852.

Kirkaldy, Entomol., xxxv, p. 137, 1902.

Van Duzee, Can. Ent., xlv, p. 382, 1914.

♂ *Pachybrachius* Hahn, Icon. Monog. Cimic., pl. 18, 1826 (for *turidus* Hahn).

[(See Bergroth, Ent. Mitt., ii, p. 11, 1913.)]

‡ *Plociomcerus* Amyot and Serville, Hémip., p. 255, 1843.

Baerensprung, Berl. Ent. Zeit., iii, p. 329, 1859.

Fieber, Europ. Hemip., pp. 45, 171, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 210, 213, 1862.

Stål, Hemip. Afr., ii, pp. 154, 156, 1865.

Thompson, Opusc. Ent., ii, p. 193, 1870.

Walker, Cat. Heter., v, p. 116, 1872.

Gynodes Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862 (orthotype *malaya* Stål).

Stål, Hemip. Afr., ii, p. 154, 1865. [fracticollis Stål].

Diplonotus Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872 (logotype

† *Pamera* Stål, Enum. Hemip., iv, p. 147, 1874.

Berg, Hemip. Argent., p. 108, 1879.

Distant, Biol. Centr. Am., Heter., i, p. 206, 1882.

Uhler, Check List, p. 15, 1886.

Provaneher, Pet. Faune Ent. Can., iii, p. 82, 1886.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 191, 1894.

Distant, Fauna Br. Ind., Rhyn., ii, p. 51, 1903 (names *vineta* pseudo-

Bergroth, Wien. Ent. Zeit., xxv, p. 9, 1906. [type.]

Oshanin, Verz. Palae. Hemip., i, p. 305, 1906.

Banks, Cat. Nearc. Hemip., p. 66, 1910.

Oshanin, Kat. Palae. Hemip., p. 33, 1912.

547. *Orthaea vineta* (Say)

Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 777; Compl. Writ., i, p.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera*. [333, *Pamera*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 480, 1901, *Pamera*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 52, 1903, *Pamera*.

Kirkaldy, Ann. Soc. Ent. Belg., li, p. 301, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907, *Pamera*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera*.

Distant, Fauna Br. Ind., Rhyn., v, p. 50, 1910, *Pamera*.

Distant, Trans. Linn. Soc. Lond., xvi, p. 152, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

gutta (Dallas), List of Hemip., ii, p. 573, 1852, *Rhyparochromus*.

parvulus (Dallas), List of Hemip., ii, p. 576, 1852, *Rhyparochromus*.

Stål, Hemip. Afr., ii, p. 159, 1865, *Plociomera*.

Stål, Ann. Soe., Ent. Fr., Ser. 4, v, p. 187, 1865, *Plociomera*.

Walker, Cat. Heter., v, p. 117, 1872, *Plociomcerus*.

Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Distant, Biol. Centr. Am., Heter., i, p. 206, pl. 19, fig. 12, 1882, *Pamera*.

amyoti (Guerin), in Sagra, Hist. de Cuba, Ins., p. 400, 1857, *Lygacus*.

vinulus (Stål), Freg. Eugen. Resa, Ins., p. 246, 1859, *Rhyparochromus*.

Stål, Rio Jan. Hemip., i, p. 40, 1860, *Rhyparochromus* (as new).

reductus (Walker), Cat. Heterop., v, p. 120, 1872, *Plociomcerus*.

bipunctatus Kirby, Jl. Linn. Soc., Zool., xx, p. 547, 1894, *Ligyrocoris*.

periplanios Kirkaldy, Can. Ent., xxxix, p. 246, 1907.

†*pacifica* Kirkaldy, Proc. Linn. Soc. N. S. Wales, xxxii, p. 776, 1907.

Localities: N. C., Ga., Fla., Texas. (Neotropical, Europe, Asia, Africa, Pacific Isds.)

548. *Orthaea curvipes* (Stål)

Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera*.

Localities: N. C., Texas, N. Mex. (West Indies.)

549. *Orthaea bilobata* (Say)

Say, Heter. N. Harm., p. 17, 1832; Fitch reprint, p. 779; Compl. Writ., i,

Stål, Stet. Ent. Zeit., xxiii, p. 312, 1862, *Plociomercus*. [p. 334, *Pamera*.

Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 187, 1865, *Pamera*.

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Berg, Hemip. Argent., p. 108, 1879, *Pamera*.

Distant, Biol. Centr. Am., Heter., i, p. 207, 1882, *Pamera*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894, *Pamera*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907, *Pamera*.

Van Duzee, Can. Ent., xli, p. 127, 1909, *Pamera*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera*.

°Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Pamera*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

maculata (Amyot and Serville), Hémip., p. 255, 1843, *Plociomercus*.

Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera*.

ochroceras (Stål), Freg. Eugen. Resa, Ins., p. 245, 1859, *Rhyparochromus*.

Stål, Rio Jan. Hemip., i, p. 39, 1860, *Rhyparochromus* (as new).

Localities: N. C., S. C., Ga., Fla., Miss., La., Texas. (Neotropical.)

550. *Orthaea servillei* (Guer.)

Guerin, in Sagra, Hist. de Cuba, Ins., p. 399, 1857, *Lygaeus*.

Stål, Stet. Ent. Zeit., xxiii, p. 312, 1862, *Plociomera* (redescribed).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

scutellatus (Dallas), List of Hemip., ii, p. 575, 1852, *Rhyparochromus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera*.

†*bilobata* (Distant), Biol. Centr. Am., Heter., i, pl. 17, fig. 25, 1882, *Pamera*.

Localities: Fla. (West Indies, Mexico.)

551. *Orthaea vicina* (Dall.)

Dallas, List of Hemip., ii, p. 576, 1852, *Rhyparochromus*.

Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera*.

Locality: "N. Am."

552. *Orthaea nitidicollis* (Stål)

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Locality: Texas.

553. *Orthaea setosa* (Stål)

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Locality: Texas.

554. *Orthaea basalis* (Dall.)

Dallas, List of Hemip., ii, p. 575, 1852, *Rhyparochromus*.

Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Pamera*.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Pamera*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera*.

Bueno, Jl. N. Y. Ent. Soc., xvii, p. 30, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Pamera*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

Localities: N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ohio, Mich., Ill., Neb., Kan., Miss., Texas.

555. *Orthaea dallasi* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 208, pl. 19, fig. 14, 1882, *Pamera* (n.n.).

†*lineatus* (Dallas), List of Hemip., ii, p. 575, 1852, *Rhyparochromus*.

Banks, Cat. Neare. Hemip., p. 66, 1910, *Pamera*.

Locality: "North America."

Genus *Pseudopamera* Dist.

Haplotype *aurivilliana* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 209, 1882.

556. *Pseudopamera forreri* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 399, pl. 35, fig. 5, 1893.

Banks, Cat. Neare. Hemip., p. 67, 1910 (spelled *ferrerei*).

Localities: "Ariz." (Central America.)

Genus *Ptochiomera* Say

Haplotype *nodosa* Say

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. 335.
Uhler, Check List, p. 15, 1886. [335.]

Banks, Cat. Neare. Hemip., p. 67, 1910.

‡*Plociomcrus* Amyot and Serville, Hémip., p. 255, 1843.

Stål, Enum. Hemip., iv, p. 152, 1874, *Plociomera*.

Distant, Biol. Centr. Am., Heter., i, p. 209, 1882, *Plociomera*.

Lethierry and Severin, Cat. Génl. Hémip., ii, p. 194, 1894, *Plociomera*.

557. *Ptochiomera nodosa* Say

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. 335.

Stål, Berl. Ent. Zeit., x, p. 161, 1867, *Plociomcrus*.

Uhler, Proe. Bost. Soc. Nat. Hist., xiv, p. 100, 1871.

Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.

Uhler, Proe. Bost. Soc. Nat. Hist., xix, p. 387, 1878.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Plociomcrus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

clavatus (Dallas), List of Hemip., ii, p. 560, 1852, *Aphanus*.

Localities: Pa., Md., N. C., Ga., Fla., La., Mo., Texas.

558. *Ptochiomera clavigera* Uhl.

Uhler, Hemip. Colo., p. 24, 1895.

Localities: Kan., Colo.

559. *Ptochiomera fuscicornis* Stål

Stål, Enum. Hemip., iv, p. 152, 1874, *Plociomera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.

Barber, Brookl. Inst. Sci. Bul., i, p. 276, 1906, *Plociomera*.

Locality: Texas.

560. *Ptochiomera antennata* VAN D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 172, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

Localities: Fla., Ariz. (?)

561. *Ptochiomera minima* (Guer.)

Guerin in Sagra, Hist. de Cuba, Ins., p. 398, 1857, *Lygacus*.

Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

Localities: Fla., La., Texas. (West Indies.)

562. *Ptochiomera oblonga* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 313, 1862, *Plociomera*.

Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera*.

Distant, Biol. Centr. Am., Heter., i, p. 209, pl. 17, fig. 24, 1882, *Plociomera*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894.

Localities: Texas. (Neotropical.)

563. *Ptochiomera formosa* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 210, pl. 19, fig. 25, 1882, *Plociomera*.

Banks, Cat. Neare. Hemip., p. 67, 1910.

Localities: Texas, Ariz. (Neotropical.)

564. *Ptochiomera puberula* Stål

Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876; iii, p. 411, 1877.

Localities: Colo., Texas.

Genus *Dycoderus* Uhl.

Haplotype *picturatus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 507, 1901.

565. *Dycoderus picturatus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 508, 1901.

Localities: Colo., Ariz.

Genus **Cnemodus** H. S.Haplotype *brevipennis* H. S. = *mavortius* Say

Herrich-Schaeffer, Wanz. Ins., ix, p. 184, 1853.

Stål, Hemip. Afr., ii, p. 153, 1865.

Stål, Enum. Hemip., iv, pp. 145, 153, 1874.

566. **Cnemodus mavortius** (Say)Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 782; Compl. Writ., i, p. Stål, Berl. Ent. Zeit., x, p. 161, 1867. [337, *Astemma*.

Stål, Enum. Hemip., iv, p. 153, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 387, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.

Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 483, 1901.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.

Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 51, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

Parshley, Psyche, xxi, p. 146, 1914.

brevipennis Herrich-Schaeffer, Wanz. Ins., ix, p. 184, fig. 948, 1853.*alacris* (Walker), Cat. Heter., v, p. 147, 1872, *Thaumastopus*?

Localities: Me., Mass., N. Y., N. J., Pa., Md., N. C., Ga., Fla.,

Ind., Mo., Texas.

567. **Cnemodus inflatus** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 109, 1915.

Locality: N. C.

568. **Cnemodus sobrius** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 241, 1894.

Localities: Calif. (Mexico.)

Genus **Pseudocnemodus** Barb.Haplotype *bruneri* Barb. = *canadensis* Prov.

Barber, Jl. N. Y. Ent. Soc., xix, p. 25, 1911.

†*Pterometus* Provancher, Pet. Faune Ent. Can., iii, p. 84, 1886.569. **Pseudocnemodus canadensis** (Prov.)Provancher, Pet. Faune Ent. Can., iii, p. 84, 1886, *Pterometus*.

Van Duzee, Can. Ent., xlv, p. 320, 1912.

Bueno, Ent. News, xxvi, p. 277, 1915.

Weiss, Ent. News, xxvii, p. 164, 1916.

bruneri Barber, Jl. N. Y. Ent. Soc., xix, p. 26, 1911.

Bueno, Can. Ent., xlv, p. 212, 1912.

Localities: Quebec, Ont., Conn., N. Y., N. J., N. C., Kan., Neb.

Genus **Carpilis** StålHaplotype *ferruginea* Stål

Stål, Enum. Hemip., iv, pp. 145, 153, 1874.

570. *Carpilis ferruginea* Stål

Stål, Enum. Hemip., iv, p. 153, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894.

Bueno, Can. Ent., xlv, p. 212, 1912.

Localities: N. Y., Texas, N. Mex.

TRIBE RHYPAROCHROMINI (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872, Div. *Rhyparochromaria*.

Stål, Enum. Hemip., iv, pp. 142, 154, 1874, Div. *Rhyparochromaria*.

Puton, Synop. Heter. Fr., i, p. 37, 1878, *Rhyparochromaria*.

Distant, Biol. Centr. Am., Heter., i, p. 212, 1882, Div. *Rhyparochromaria*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 59, 1903, Div. *Rhyparochromaria*.

Oshanin, Verz. Palae. Hemip., i, p. 309, 1906, Div. *Rhyparochromaria*.

Oshanin, Kat. Palae. Hemip., p. 33, 1912, Tribe *Rhyparochromaria*.

Genus *Ozophora* Uhl.Haplotype *picturata* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 102, 1871.

Stål, Enum. Hemip., iv, pp. 154, 156, 1874.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 389, 1878 (redescribed). [Dist.]

Davila Distant, Biol. Centr. Am., Heter., i, p. 394, 1893 (logotype *concura*

Peggichisme Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Davila*).

571. *Ozophora picturata* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 102, 1871.

Stål, Enum. Hemip., iv, p. 156, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 390, 1878.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.

Bueno, Can. Ent., xlv, p. 212, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914.

consanguineus (Distant), Biol. Centr. Am., Heter., i, p. 395, pl. 35, fig. 2,

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186. [1893, *Davila*.

Localities: Mass., N. J., Pa., Md., Fla., Texas, Ariz.

572. *Ozophora trinotata* Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

Locality: Fla.

573. *Ozophora burmeisteri* (Guer.)

Guerin, in Sagra, Hist. de Cuba, Ins., p. 397, 1857, *Lygaeus*.

Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 187, 1865.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894.

Barber, Brookl. Inst., Sci. Bul., i, p. 276, 1906.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.

Localities: Fla., Texas. (Neotropical.)

574. *Ozophora concavus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 394, pl. 35, fig. 1, 1893, *Davila*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907.

Localities: Fla. (Neotropical.)

575. *Ozophora unicolor* Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894.

Banks, Cat. Neare. Hemip., p. 66, 1910.

Localities: "Calif." (Banks). (Mexico.)

Genus *Tempyra* StålHaplotype *biguttula* Stål

Stål, Enum. Hemip., iv, pp., 155, 157, 1874.

576. *Tempyra biguttula* Stål

Stål, Enum. Hemip., iv, p. 157, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.

Localities: Md., Texas.

Genus *Pamphantus* StålHaplotype *elegantulus* Stål

Stål, Enum. Hemip., iv, pp. 155, 157, 1874.

577. *Pamphantus elegantulus* Stål

Stål, Enum. Hemip., iv, p. 157, 1874.

Uhler, Check List, p. 15, 1886.

Localities: "South States" (Uhler). (West Indies.)

Genus *Antilocoris* Kirk.Haplotype *pallidus* Uhl.

Kirkaldy, Entomol. xxxvii, p. 280, 1904 (n.n. for *Pygacus* Uhl.).

Bergroth, Ann. Soc. Ent. Belg., lvii, p. 153, 1913.

||*Salacia* Stål, Enum. Hemip., iv, pp. 156, 157, 1874 (Section *aa* only).

†*Salacia* Distant, Biol. Cent. Am., Heter., i, p. 406, 1893.

||*Pygacus* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187 (haplotype *pallidus*

Van Duzee, Can. Ent., xli, p. 373, 1909. [Uhl.]

578. *Antilocoris pilosulus* (Stål)

Stål, Enum. Hemip., iv, p. 158, 1874, *Salacia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Salacia* (part).

Bergroth, Revue d'Ent., xiv, p. 143, 1895, *Cligenes*.

Bueno, Can. Ent., xlv, p. 212, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914, *Salacia*.

Localities: N. Y., N. J., Texas.

579. *Antilocoris pallidus* (Uhl.)

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187, *Pygacus*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 497, 1901, *Pygacus*.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Pygacus*.

Van Duzee, Can. Ent., xli, p. 373, 1909, *Pygacus*.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Pygacus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914, *Pygaeus*.

Parshley, Psyche, xxi, p. 146, 1914, *Cligenes*.

†*pilosulus* (Van Duzee), Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Salacia*.

†*picturata* (Uhler), Proc. Zool. Soc. Lond. for 1894, p. 188, *Salacia*.

minutus (Bergroth), Revue d'Ent., xiv, p. 144, 1895, *Cligenes*.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910, *Cligenes*.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Cligenes*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md., Fla., Texas.

580. *Antilocoris punctatus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 406, 1893, *Salacia*?

Banks, Cat. Neare. Hemip., p. 63, 1910.

Locality: Texas.

Genus *Rhyparochromus* Curt.

Orthotype *chiragra* (Fabr.)

Curtis, Br. Ent., xiii, pl. 612, 1836 (names *chiragra* type).

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (part).

Amyot and Serville, Hémip., p. 253, 1843.

Dallas, List of Hemip., ii, p. 560, 1852.

Stål, Of. Vet. Akad. Forh., xix, pp. 212, 220, 1862; xxix, No. 7, p. 52, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 215, 1882.

Megalonotus Fieber, Europ. Hemip., pp. 47, 181, 1861.

581. *Rhyparochromus sodalicus* (Uhl.)

Uhler, Wheeler's Surv. 100th Merid., v, p. 835, pl. 42, fig. 2, 1875, *Megalonotus*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Megalonotus*.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 75, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Localities: Texas, Utah, Nev., Calif., Ore.

582. *Rhyparochromus angustatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 74, 1910.

Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.

Localities: Wash., Vanc. Isl., Calif.

583. (See No. 460½, *Lygaeosoma tripunctata*)

Genus *Plinthisus* Fieb.

Logotype *brevipennis* (Latr.)

†Stephens, Syst. Cat. Brit. Ins., p. 343, 1829.

Fieber, Europ. Hemip., pp. 46, 177, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 211, 217, 1862.

Douglas and Scott, Brit. Hemip., p. 211, 1865.

Thomson, Opusc. Ent., Fasc. ii, p. 186, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 53, 1872.

Horvath, Verh. Zool. Bot. Ges. Wien, xxvi, p. 724, 1876.

Puton, Synop. Heter. Fr., i, p. 41, 1878.

Horvath, Revue d'Ent., v, p. 215, 1886.

Oshanin, Kat. Palae. Hemip., p. 35, 1912. (Names *brevipennis* type.)

†*Lamprodema* Distant, Fauna Brit. Ind., Rhyn., ii, p. 71, 1903.

584. *Plinthisus americanus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 75, 1910.

Localities: Ont., N. H.

Genus *Peritrechus* Fieb.Logotype *angusticollis* (Sahlbg.)

Fieber, Europ. Hemip., pp. 48, 183, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 211, 218, 1862.

Douglas and Scott, Brit. Hemip., p. 187, 1865.

Thomson, Opusc. Ent., Fasc. ii, p. 191, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872.

Puton, Synop. Heter. Fr., i, p. 43, 1878.

Distant, Fauna Br. Ind., Rhyn., ii, p. 75, 1902.

Oshanin, Kat. Palae. Hemip., p. 36, 1912 (cites *angusticollis* as type).*Pasatus* Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872. (Haplotype
[*luniger* Schill.])†*Ischnodemus* Provancher, Pet. Faune Ent. Can., iii, p. 75, 1886.585. *Peritrechus fraternus* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 103, 1871.

Stål, Enum. Hemip., iv, p. 167, 1872.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 391, 1878.

Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

†*falicus* (Provancher), Pet. Faune Ent. Can., iii, p. 75, 1886, *Ischnodemus*.Localities: Quebec, Ont., Mass., N. Y., N. J., Kan., Colo., N. Mex.,
Calif., Idaho.586. *Peritrechus paludemaris* Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914.

Localities: N. Y., Md., Fla.

587. *Peritrechus tristis* Van D.

Van Duzee, Ent. News, xvii, p. 388, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Localities: Calif., Wash., Vanc. Isd.

Genus *Stignocoris* D. & S.Logotype *rusticus* Fall.Douglas and Scott, Brit. Hemip., p. 213, 1865 (n.n. for *Stygnum* Fieb.).

Oshanin, Verz. Palae. Hemip., i, p. 333, 1906.

Oshanin, Kat. Palae. Hemip., p. 35, 1912.

†*Aphanus* Dallas, List of Hemip., ii, p. 558, 1852.†*Stygnum* Fieber, Europ. Hemip., pp. 49, 186, 1861. (Type *rusticus* Fall.)

Thomson, Opusc. Ent., Fasc. ii, p. 188, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 53, 1872.

Puton, Synop. Heter. Fr., i, p. 43, 1878.

Stethatropis Fieber, Verh. Zool.-Bot. Ges. Wien, xx, p. 245, 1870. (Haplo-
[type *incana* Fieb. = *rusticus* Fall.]

588. *Stignocoris rusticus* (Fall.)

- Fallén, Monog. Cimic. Suec., p. 70, 1807, *Lygacus*.
 Fallén, Hemip. Suec., Cimic., p. 64, 1829, *Lygacus*.
 Schilling, Beit. z. Ent., i, p. 81, pl. 7, fig. 5, 1829, *Pachymerus*.
 Hahn, Wanz. Ins., i, p. 223, fig. 116, 1831, *Pachymerus*.
 Herrieh-Schaeffer, Nomen. Ent., i, pp. 46, 80, 1835, *Aphanus*.
 Dallas, List of Hemip., ii, p. 558, 1852, *Aphanus*.
 Flor, Rhyn. Livl., i, p. 241, 1860, *Pachymerus*.
 Fieber, Europ. Hemip., p. 186, 1861, *Stygnus*.
 Douglas and Scott, Brit. Hemip., p. 214, pl. 7, fig. 9, 1865.
 Puton, Synop. Heter. Fr., i, p. 53, 1878, *Stygnus*.
 Reuter, Ent. Tidskr., ii, p. 91, 1881.
 Saunders, Hemip. Heter. Br. Isds., p. 93, 1892, *Stygnus*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908. [*Stethotropis*.
incana (Fieber), Ver. Zool.-Bot. Ges. Wien, xx, p. 245, pl. 5, fig. 3, 1870,
 Localities: Quebec. (Palaearectic.)

TRIBE BEOSINI (Stål)

- Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872, Div. *Beosaria*.
 Stål, Enum. Hemip., iv, p. 158, 1874, Div. *Beosaria*.
 Puton, Synop. Heter. Fr., i, p. 37, 1878.
 Reuter, Revue d'Ent., iv, p. 217, 1885.
Aphanaria Distant, Fauna Br. Ind., Rhyn., ii, p. 78, 1903 (Division).
 Oshanin, Verz. Palae. Hemip., i, p. 343, 1906.
 Oshanin, Kat. Palae. Hemip., p. 36, 1912.

Genus *Trapezonotus* Fieb.

Logotype *agrestis* (Fall.) = *arenarius* (Linn.)

- Fieber, Europ. Hemip., pp. 50, 190, 1861.
 Stål, Of. Vet. Akad. Forh., xix, pp. 211, 220, 1862.
 Douglas and Scott, Brit. Hemip., p. 190, 1865.
 Thomson, Opusc. Ent., Fasc. ii, p. 197, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
 Stål, Enum. Hemip., iv, pp. 158, 159, 1874 (section *aa*).
 Puton, Synop. Heter. Fr., i, p. 57, 1878 (part).
 Distant, Biol. Centr. Am., Heter., i, p. 216, 1882.
 Reuter, Revue d'Ent., iv, p. 218, 1885.
 Oshanin, Kat. Palae. Hemip., p. 36, 1912 (names *arenarius* type).
Guopherus Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872. (Haplo-
 [type *nigripes* Fieb. = *anorus* Flor.]

589. *Trapezonotus arenarius* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758, *Cimex*.
 Linnaeus, Fauna Suec., edn. Alt., p. 254, 1761, *Cimex*.
 Houttuin, Natur. Hist., i, x, p. 368, 1765, *Cimex*.
 Muller, Linne's Natursystem, v, p. 500, 1774, *Cimex*.
 Fabricius, Syst. Ent., p. 723, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 218, 1778, *Cimex*.
 Schrank, Enum. Inst. Austr., p. 286, 1781, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 170, 1794, *Lygacus*.
 Fabricius, Syst. Rhyng., p. 233, 1803, *Lygacus*.

- Reuter, Rev. Synon., p. 380, No. 361, 1888, *Cimex*.
 Oshanin, Verz. Palae. Hemip., i, p. 346, 1906.
 Oshanin, Kat. Palae. Hemip., p. 37, 1912.
 †*sylvaticus* (Panzer), Fauna Germ., xciii, fig. 16, 1805, *Lygaeus*.
agrestis (Fallén), Monog. Cimic. Suec., p. 66, 1807, *Lygaeus*.
 Zetterstedt, Fauna Lapp., p. 478, 1828, *Lygaeus*.
 Fallén, Hemip. Suec., Cimic., p. 55, 1829, *Lygaeus*.
 Schilling, Beit. z. Ent., i, p. 70, 1829, *Pachymerus*.
 Hahn, Wanz. Ins., i, p. 25, fig. 15, 1831, *Pachymerus*.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 45, 78, 1835, *Pachymerus*.
 Zetterstedt, Ins. Lapp., column 263, 1840, *Lygaeus*.
 Costa, Cimic. Reg. Neap., ii, p. 34, 1843, *Pachymerus*.
 Dallas, List of Hemip., ii, p. 564, 1852, *Rhyparochromus*.
 Flor, Rhyn. Livl., i, p. 265, 1860, *Pachymerus*.
 Fieber, Europ. Hemip., p. 191, 1861.
 Stål, Of. Vet. Akad. Forh., xix, p. 220, 1862; xxix, No. 7, p. 56, 1872.
 Puton, Synop. Heter. Fr., i, p. 59, 1878.
 Reuter, Rev. Synon., p. 196, No. 139, 1888.
 Horvath, Revue d'Ent., xvii, p. 276, 1898.
psammobius Garbiglietti, Bul. Soc. Ent. Ital., i, p. 117, 1869.
 Localities: Quebec, Mass. (Palearctic.)

590. *Trapezonotus rufipes* Stål

- Stål, Enum. Hemip., iv, p. 159, 1874.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
 Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Sphragisticus*.
 Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
 Localities: N. J., Texas.

591. *Trapezonotus(?) caliginosus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 216, pl. 20, fig. 3, 1882.
 Banks, Cat. Neare. Hemip., p. 68, 1910.
 Localities: "S. W. States" (Banks). (Cent. Am.)

Genus *Sphragisticus* Stål

Logotype *nebulosus* Fall.

- Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
 Stål, Enum. Hemip., iv, p. 158, 1874 (as subgenus).
 Reuter, Revue d'Ent., iv, p. 218, 1885 (restricts to *nebulosus*).
 Oshanin, Kat. Palae. Hemip., p. 37, 1912 (names *nebulosus* type).

592. *Sphragisticus nebulosus* (Fall.)

- Fallén, Monog. Cimic. Suec., p. 65, 1807, *Lygaeus*.
 Fallén, Hemip. Suec., Cimic., p. 54, 1829, *Lygaeus*.
 Schilling, Beit. z. Ent., i, p. 69, pl. 6, fig. 5, 1829, *Pachymerus*.
 Hahn, Wanz. Ins., i, p. 46, fig. 29, 1831, *Pachymerus*.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 45, 79, 1835, *Pachymerus*.
 Zetterstedt, Ins. Lapp., column 263, 1840, *Lygaeus*.
 Dallas, List of Hemip., ii, p. 564, 1852, *Rhyparochromus*.
 Flor, Rhyn. Livl., i, p. 268, 1860, *Pachymerus*.
 Fieber, Europ. Hemip., p. 190, 1861, *Trapezonotus*.
 Stål, Of. Vet. Akad. Forh., xix, p. 220, 1862, *Trapezonotus*.

- Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
 Stål, Enum. Hemip., iv, p. 159, 1874, *Trapezonotus*. [Trapezonotus.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876; iii, p. 412, 1877.
 Uhler, Wheeler's Rept. Chief. Eng. for 1877, *Trapezonotus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878, *Trapezonotus*.
 Puton, Synop. Heter. Fr., i, p. 58, 1878, *Trapezonotus*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894, *Trapezonotus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Trapezonotus*.
 Gillette and Baker, Hemip. Colo., p. 25, 1895, *Trapezonotus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
 Parshley, Psyche, xxi, p. 146, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.
fallax (Say), Heter. N. Harm., p. 17, 1832; Fitch reprint, p. 778; Compl.
 [Writ., i, p. 334, *Pamera*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Rhyparo-*
 Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893, *Pamera*. [chromus.
 Localities: Ont., Me., N. Y., N. J., Pa., Ill., Dak., Colo., Mont.,
 Utah, Texas, N. Mex., Calif., Vane. Isl., Br. Col. (Mexico,
 Palaearctic.)

Genus **Petissius** Dist.

Orthotype *assimilandus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 407, 1893.

593. **Petissius diversus** Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 407, pl. 35, fig. 22, 1893, *Petissius*?
 Banks, Cat. Neare. Hemip., p. 67, 1910.
 Localities: Fla., Texas. (Neotropical.)

Genus **Aphanus** Lap.

Orthotype *rolandri* (Linn.)

- Laporte, Essai Classif. Syst. Hemip., p. 35, 1832 (n.n. for *Pachymerus*).
 Brullé, Hist. Nat. des Ins., ix, p. 387, 1835.
 Spinola, Essai sur les Hémipt., p. 238, 1837 (1840).
 Blanchard, Hist. des Ins., Hémipt., p. 132, 1840.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 562, 1908.
 Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 122, 1910 (names *pedester* pseudotype).
 ¶*Pachymerus* Lepeletier and Serville, Eneye. Méth., x, p. 322, 1825 (Logo-
 [type *rolandri* Linn.).
 Latreille, Fam. Nat. Règne Anim., p. 422, 1825 (French *Pachymere*).
 Latreille, in Cuvier, Règne Animal, edn. 2, v, p. 198, 1829 (French
 Schilling, Beit. z. Ent., i, pp. 37, 64, 1829. [Pachymere).
 Hahn, Wanz. Ins., i, p. 37, 1831.
 Herrieh-Schaeffer, Nomen. Ent., i, pp. 36, 78, 1835.
 Burmeister, Handb. d. Ent., ii, p. 293, 1835.
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836, *Pachy-*
 Spinola, Tavola Sinot., p. 37, 1850. [mera.
 Flor, Rhyn. Livl., i, pp. 224, 236, 1860.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 57, 1872.
 Stål, Enum. Hemip., iv, p. 160, 1874.
 Puton, Synop. Heter. Fr., i, p. 58, 1878.

Pamra Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl.
[Writ., i, p. 332 (n.n. for *Pachymerus* Lep.).

Kirkaldy, Entomol., xxxix, p. 256, 1906.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 122, 1910 (names *pedester*

Amictus Gistel, Naturges. des Thierr., p. x, 1848. [pseudotype).

†*Calyptonotus* Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 57, 1872 (sub-
Reuter, Revue d'Ent., iv, pp. 218, 221, 1885. [genus).

Oshanin, Verz. Palae. Hemip., i, p. 348, 1906.

Kirkaldy, Entomol., xxxix, p. 256, 1906 (names *rolandri* type).

Oshanin, Kat. Palae. Hemip., p. 37, 1912. [*illuminatus* Dist.).

||*Dorachosa* Distant, Biol. Centr. Am., Heter., i, p. 409, 1893 (Haplotype

Delochilocoris Bergroth, Revue d'Ent., xii, p. 154, 1893 (n.n. for *Dorachosa*).

594. *Aphanus umbrosus* (Dist.)

Distant, Biol. Cent. Am., Heter., i, p. 409, 1893 (var.? of *Dorachosa illumin-*
Bergroth, Revue d'Ent., xii, p. 154, 1893, *Delochilocoris*. [atus Dist.).

Horvath, Ann. Mus. Natl. Hung., vi, p. 561, 1908 (a species distinct).

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

†*carbonaria* (Uhler), Cheek List, p. 15, 1886, *Microtoma*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Microtoma*.

†*atrata* (Van Duzee), Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Microtoma*.

†*illuminatus* (Gillette and Baker), Hemip. Colo., p. 26, 1895, *Rhyparochromus*.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Delochilocoris*.

Localities: Ont. Mass., N. Y., N. J., Pa., D. C., Fla., Kan., Colo.,
Texas, Ariz., Calif.

595. *Aphanus compactus* (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904, *Rhyparochromus*.

Locality: N. Mex.

Genus *Uhleriola* Horv.

Orthotype *floralis* (Uhl.)

Horvath, Ann. Mus. Natl. Hung., vi, p. 562, 1908.

596. *Uhleriola floralis* (Uhl.)

Uhler, Hemip. Colo., p. 26, 1895, *Rhyparochromus*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, 178, 1906, *Rhyparochromus*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 563, 1908.

Localities: Colo., Ariz.

TRIBE GONIANOTINI (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 58, 1872, Div. *Gonianotaria*.

Puton, Synop. Heter. Fr., i, p. 37, 1878, Div. *Gonianotaria*.

Oshanin, Verz. Palae. Hemip., i, p. 364, 1906, Div. *Gonianotaria*.

Oshanin, Kat. Palae. Hemip., p. 38, 1912, Div. *Gonianotaria*.

Genus *Emblethis* Fieb.

Logotype *platychilus* Fieb. = *verbasci* (Fabr.)

Fieber, Europ. Hemip., pp. 51, 197, 1861.

Stål, Of. Vet. Akad. Forh., xix, p. 222, 1862 (as subgen. of *Gonianotus* Fieb.)

Thompson, Opusc. Ent., ii, p. 195, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872.

Puton, Synop. Heter. Fr., i, p. 66, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 77, 1886.

Oshanin, Kat. Palae. Hemip., p. 38, 1912 (names *verbasci* type).

597. *Emblethis vicarius* Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 563, 1908.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.

Smith, Cat. Ins N. J., edn. 3, p. 144, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Bueno, Psyche, xxii, p. 16, 1915.

‡*arenarius* Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876; iii, p. 412, 1877.

Uhler, Check List, p. 15, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 77, 1886.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.

Gillette and Baker, Hemip. Colo., p. 25, 1895.

[*Gonianotus*.

‡*marginipunctatus* (Uhler), Proc. Bost. Soc. Nat. Hist., xix, p. 392, 1878,

Distant, Biol. Centr. Am., Heter., i, p. 218, 1882, *Gonianotus*.

Emblethis sp., Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.

‡*griseus* Bueno, Can. Ent., xli, p. 295, 1909.

Localities: Mass., N. Y., N. J., Ga., Fla., Ill., N. D., Wyom., Mont.,

Colo., Utah, Nev., Calif., Vane. Isd. (Mexico.)

TRIBE *LETHIINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872, Div. *Lethacaria*.

Stål, Enum. Hemip., iv, p. 163, 1874, Div. *Lethaeria*.

Oshanin, Verz. Palae. Hemip., i, p. 370, 1906, Div. *Lethaeria*.

Oshanin, Kat. Palae. Hemip., p. 39, 1912, Tribe *Lethaeria*.

Drymaria Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872 (Division).

Puton, Synop. Heter. Fr., i, p. 38, 1878 (Division).

Genus *Drymus* Fieb.

Logotype *pilipes* Fieb.

Fieber, Europ. Hemip., pp. 46, 178, 1861.

Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.

Douglas and Scott, Brit. Hemip., p. 196, 1865.

Thomson, Opusc. Ent., ii, p. 199, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.

Puton, Synop. Heter. Fr., i, p. 69, 1878.

Distant, Fauna Br. Ind., Rhyn., ii, p. 92, 1903. (Names *pilipes* type.)

Lampronotus Douglas and Scott, Ent. Mo. Mag., iv, p. 214, 1868.

Lamprolpax Douglas and Scott, Ent. Mo. Mag., iv, p. 265, 1868 (n.n. for

Drymocoris Jakowlef, Troudy Ent. Ross., ix, p. 223, 1876. [*Lampronotus*].)

598. *Drymus unus* (Say)

Say, Heter N. Harm., p. 16, 1832; Fitch reprint, p. 778; Compl. Writ., i, p. 333,

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876, *Megalonotus*. [*Pamera*.

Uhler, Check List, p. 15, 1886, *Megalonotus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Megalonotus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Megalonotus*.

Gillette and Baker, Hemip. Colo., p. 24, 1895, *Pamera*.

Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Rhyparochromus*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908, *Rhyparochromus*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 564, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.

Parshley, Psyche, xxi, p. 146, 1914.

Localities: Me., N. Y., N. J., Pa., Md., N. C., Ind., Colo., Texas.

599. *Drymus crassus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 76, 1910.

Localities: N. H., N. J., Pa., N. C.

Genus *Eremocoris* Fieb.

Logotype *erraticus* (Fabr.)

Fieber, Europ. Hemip., pp. 49, 187, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 211, 219, 1862.

Douglas and Scott, Brit. Hemip., p. 176, 1865.

Thomson, Opusc. Ent., Fasc. ii, p. 200, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.

Stål, Enum. Hemip., iv, pp. 163, 164, 1874.

Puton, Synop. Heter. Fr., i, p. 63, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 218, 1882.

Horvath, Revue d'Ent., ii, p. 1, 1883 (monograph).

Provancher, Pet. Faune Ent. Can., iii, p. 80, 1886.

Distant, Fauna Br. Ind., Rhyn., v, p. 84, 1910 (names *erraticus* type).

600. *Eremocoris ferus* (Say)

Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 778; Compl. Writ., i, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 103, 1871. [333, *Pamera*.

Stål, Enum. Hemip., iv, p. 164, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 391, 1878.

Horvath, Revue d'Ent., ii, p. 9, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 81, 1886.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.

Gillette and Baker, Hemip. Colo., p. 26, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.

Distant, Fauna Br. Ind., Rhyn., v, p. 84, 1910.

Parshley, Psyche, xxi, p. 146, 1914.

borcalis (Dallas), List of Hemip., ii, p. 565, 1852, *Rhyparochromus*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,

Md., N. C., S. C., Ill., Colo., Mont., Utah, Texas, Calif.(?).

601. *Eremocoris inquilinus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 10, 1914.

Locality: Calif.

602. *Eremocoris obscurus* Van D.

Van Duzee, Ent. News, xvii, p. 388, 1906.

Localities: Vanc. Isd., Calif.

603. *Eremocoris wrighti* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.

Locality: Calif.

Genus *Xestocoris* Van D.Haplotype *nitens* Van D.

Van Duzee, Ent. News, xvii, p. 389, 1906.

Van Duzee, Can. Ent., xli, p. 384, 1909 (citing *nitens* as type).604. *Xestocoris nitens* Van D.

Van Duzee, Ent. News, xvii, p. 390, 1906.

Parshley, Psyche, xxi, p. 146, 1914.

?†*collina* (Banks), Cat. Nearc. Hemip., p. 67, 1910, *Rhaptus*.

Localities: Me., N. Y.

Genus *Gastrodes* Westw.Logotype *abietis* Linn.Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (n.n. for *Platy-*
[*gaster* Schill., names *abietis* type.)

Douglas and Scott, Brit. Hemip., p. 165, 1865.

Puton, Synop. Heter. Fr., i, p. 69, 1878.

Oshanin, Verz. Palae. Hemip., i, p. 386, 1906.

Oshanin, Kat. Palae. Hemip., p. 40, 1912.

||*Platygaster* Schilling, Beit. z. Ent., i, p. 82, 1829.

Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 45, 1835.

Dallas, List of Hemip., ii, p. 581, 1852.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.

Stål, Enum. Hemip., iv, p. 164, 1874.

Provancher, Pet. Faune Ent. Can., iii, p. 205, 1889.

Ancylopus Flor, Rhyn. Livl., i, p. 232, 1860 (n.n. for *Platygaster*).*Homalodema* Fieber, Europ. Hemip., pp. 49, 187, 1861 (n.n. for *Platy-*Stål, Of. Vet. Akad. Forh., xix, pp. 211, 218, 1862. [*gaster*).605. *Gastrodes ferrugineus* (Linn.)?Scopoli, Ent. Carn., p. 130, 1863, *Cimex*.Linnaeus, Syst. Nat., edn. 12, p. 730, 1867, *Cimex*.Muller, Linne's Natursys., v, p. 501, 1774, *Cimex*.Goeze, Ent. Beytr., ii, p. 220, 1778, *Cimex*.Turton edn., Linnaeus, Syst. Nat., edn. 13, ii, pt. 1, p. 671, 1806, *Cimex*.Schilling, Beit. z. Ent., i, p. 82, pl. 7, fig. 7, 1829, *Platygaster*.Hahn, Wanz. Ins., iii, p. 34, fig. 254, 1835, *Platygaster*.Amyot and Serville, Hémip., p. 251, 1843, *Platygaster*.Dallas, List of Hemip., ii, p. 581, 1852, *Platygaster*.Flor, Rhyn. Livl., i, p. 235, 1860, *Pachymerus* subg. *Ancylopus*.Fieber, Europ. Hemip., p. 187, 1861, *Homalodema*.Stål, Of. Vet. Akad. Forh., xix, p. 219, 1862, *Homalodema*.

Douglas and Scott, Brit. Hemip., p. 168, 1865.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872, *Platygaster*.

Puton, Synop. Heter. Fr., i, p. 80, 1878.

Saunders, Hemip. Heter. Br. Isds., p. 118, pl. 10, fig. 10, 1892.

Oshanin, Verz. Palae. Hemip., i, p. 387, 1906.

Banks, Cat. Nearc. Hemip., p. 64, 1910.

grossipes (De Geer), Memoirs, iii, p. 308, pl. 15, figs. 20, 21, 1773, *Cimex*.

Reuter, Rev. Synon., p. 213, No. 163, 1888.

†*abietis* (Retzius), Genera Spec. Ins., p. 88, 1783, *Cimex*.

Schrank, Fauna Boic., p. 84, 1801, *Cimex*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 218, 1804, *Lygaeus*.

Fallén, Monog. Cimic. Suec., p. 68, 1807, *Lygaeus*.

Fallén, Hemip. Suec., Cimic., p. 61, 1829, *Lygaeus*.

Burmeister, Handb. d. Ent., ii, p. 295, 1835, *Pachymerus*.

Zetterstedt, Ins. Lapp., column 264, 1840, *Lygaeus*.

Localities: "N. States" (Banks).

606. *Gastrodes pacificus* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 205, 1889, *Platygaster*.

Locality: Vane. Isd.

Genus *Cistalia* Stål

Logotype *signoreti* Guer.

Stål, Enum. Hemip., iv, pp. 164, 165, 1874.

607. *Cistalia signoreti* (Guer.)

Guerin, in Sagra, Hist. de Cuba, Ins., p. 296, 1857, *Lygaeus*.

Stål, Enum. Hemip., iv, p. 165, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.

Localities: Texas, Nev., Calif. (West Indies.)

Genus *Cryphula* Stål

Haplotype *parallelogrammu* Stål

Stål, Enum. Hemip., iv, pp. 164, 165, 1874.

608. *Cryphula parallelogramma* Stål

Stål, Enum. Hemip., iv, p. 165, 1874.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.

Localities: N. Y., N. J., Kan., Texas, N. Mex.

Genus *Esuris* Stål

Haplotype *tigrina* Stål

Stål, Enum. Hemip., iv, pp. 164, 166, 1874.

Distant, Biol. Centr. Am., Heter., i, p. 410, 1893.

Barber, Jl. N. Y. Ent. Soc., xix, p. 27, 1911.

609. *Esuris castanea* Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 27, 1911.

Locality: Ariz.

Genus *Scolopostethus* Fieb.

Logotype *cognatus* Fieb.

Fieber, Europ. Hemip., pp. 49, 188, 1861.

Stål, Of. Vet. Akad. Forh., xix, pp. 211, 219, 1862.

Douglas and Scott, Brit. Hemip., p. 181, 1865.

Thomson, Opusc. Ent., Fasc. ii, p. 200, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.

Puton, Synop. Heter. Fr., i, p. 69, 1878.

Horvath, Ent. Mo. Mag., xxvii, p. 116, 1891.

Horvath, Revue d'Ent., xi, p. 253, 1892; xii, p. 238, 1893.

Distant, Fauna Br. Ind., Rhyn., ii, p. 92, 1903 (names *cognatus* Fieb. type).

Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911.

Oshanin, Kat. Palae. Hemip., p. 39, 1912 (names *pictus* Schill. type).

Bueno, Ent. News, xxviii, p. 65, 1917.

?*Tritomaccera* Costa, Ann. Soc. Ent. Fr., Ser. 1, x, p. 296, 1841. (Type
[*aphanoides* Costa.)

Manatanus Distant, Ann. Mag. Nat. Hist., Ser. 8, iii, p. 494, 1909. (Hap-

Distant, Fauna Br. Ind., Rhyn., v, p. 86, 1910. [Iotype *montanus* Dist.]

610. *Scolopostethus thomsoni* Reut.

Reuter, Ann. Soc. Ent. Fr., Ser. 5, iv, p. 562, 1874.

Horvath, Ent. Mo. Mag., xxvii, p. 118, 1891.

Horvath, Revue d. Ent., xi, p. 254, 1892.

Van Duzee, Ent. News, v, p. 108, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 505, 1900.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

†*decoratus* (Thomson), Opusc. Ent., Fasc. ii, p. 201, 1870, *Lygaeus*.

adjunctus Horvath, Monog. Lygaeid., p. 87, 1875.

Puton, Synop. Heter. Fr., i, p. 75, 1878.

Reuter, Ent. Tidskr., ii, p. 82, 1881.

neglectus Edwards, Ent. Mo. Mag., xxv, p. 279, 1889 (as var.).

Saunders, Hemip. Heter. Br. Isds., p. 112, 1892.

†*affinis* Van Duzee, Psyche, v, p. 240, 1889.

Localities: N. Y., N. J., Colo., Ariz., Calif., Alaska.

611. *Scolopostethus atlanticus* Horv.

Horvath, Revue d'Ent., xii, p. 239, 1893.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.

Localities: N. H., Mass., N. Y., N. J., Wash., Vane. Isd.

612. *Scolopostethus diffidens* Horv.

Horvath, Revue d'Ent., xii, p. 240, 1893.

Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.

Parshley, Psyche, xxi, p. 146, 1914.

†*nodosus* (Provancher), Pet. Faune Ent. Can., iii, p. 77, 1886, *Plociomerus*.

Localities: Quebec, Me., Mass., N. J., Idaho, Calif.

613. *Scolopostethus tropicus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 218, pl. 20, fig. 7, 1882, *Eremocoris*.

?Gillette and Baker, Hemip. Colo., p. 26, 1895, *Eremocoris* (probably is *thom-*

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 10, 1914. [*soni*].

Localities: Calif. (Guatemala).

Rhyparochromus armatipes Walker = **Dieuches armipes** Fabr. (Not American.)

PHALYNX PYRRHOCORIFORMES Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 31, 49, 1912.

Family PYRRHOCORIDAE Fieb.

- Fieber, Europ. Hemip., pp. 25, 43, 1860; p. 162, 1861.
 Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Pyrrhocorida*.
 Stål, Berl. Ent. Zeit., vii, p. 390, 1863, *Pyrrhocorida*.
 Stål, Hemip. Afr., iii, p. 1, 1865, *Pyrrhocorida*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 130, 1868, *Pyrrhocorida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 665, 1870, *Pyrrhocorina*.
 Stål, Enum. Hemip., i, p. 90, 1870, *Pyrrhocorina*. [the *Lygacidae*].
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872, *Pyrrhocorina* (subfam. of
 Stål, Enum. Hemip., iv, p. 167, 1874, *Pyrrhocorina* (subfam. of the *Lygacidae*).
 Distant, Biol. Centr. Am., Heter., i, p. 220, 1882, *Pyrrhocoridae*.
 Uhler, Stand. Nat. Hist., ii, p. 287, 1884, *Pyrrhocoridae*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 31, 1886, Tribe *Pyrrhocorini*.
 Uhler, Check List, p. 16, 1886, *Pyrrhocoridae*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 237, 1894, *Pyrrhocoridae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 94, 1903, *Pyrrhocoridae*.
 Oshanin, Verz. Palae. Hemip., i, p. 387, 1906, *Pyrrhocorina* (subfam. of the
 Kirkaldy, Can. Ent., xl, p. 360, 1908, *Pyrrhocoridae*. [the *Lygacidae*].
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 83, 1910, *Pyrrhocoridae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 58, 1912,
 Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Pyrrhocoridae*. [*Pyrrhocoridae*.
Cecigenes Amyot and Serville, Hémip., pp. xxxviii, 265, 1843.
 Dohrn, Cat. Hemip., p. 36, 1859, *Cecigenae*.
 Flor, Rhyn. Livl., i, p. 209, 1860, *Coeecigena*.
 Douglas and Scott, Brit. Hemip., pp. 19, 163, 1865, *Coccigenina*.
Astemmoideae Spinola, Tavola Sinot., p. 38, 1850.

Subfamily EURYOPHTHALMINAE Van D.

- Van Duzee, Check List Hemip., p. 24, 1916.
Largides Amyot and Serville, Hémip., pp. xxxviii, 273, 1843.
 Dohrn, Cat. Hemip., p. 37, 1859, *Largidae*.
 Stål, Hemip. Afr., iii, p. 1, 1865, *Largida*.
 Stål, Enum. Hemip., i, p. 90, 1870, *Largina*.
 Walker, Cat. Heter., v, pp. 163, 165, 1872, *Largidae*.
 Berg, Hemip. Argent., p. 112, 1879, *Largina*.
 Distant, Biol. Centr. Am., Heter., i, p. 220, 1882, *Larginae*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 237, 1894, *Largidae*.
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 94, 1903, *Larginae*.
 Oshanin, Verz. Palae. Hemip., i, p. 392, 1906, Div. *Largaria*.
 Banks, Cat. Neare. Hemip., p. 69, 1910, *Larginae*.
 Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Larginae*.

Genus *Euryopthalmus* Lap.

Orthotype *puncticollis* Lap. = *lunaris* (Gmel.)

- Laporte, Essai Classif. Syst. Hémip., p. 38, 1832.
 Kirkaldy, Entomol. xxxiv, pp. 176, 219, 1801.
 Van Duzee, Check List Hemip., p. 24, 1916.
 †*Largus* Hahn, Wanz. Ins., i, p. 13, 1831.
Largus Burmeister, Handb. d. Ent., ii, p. 281, 1835.

- Spinola, Essai sur les Hémip., p. 179, 1837 (1840).
 Blanchard, Hist. des Ins., Hémip., iv, p. 127, 1840.
 Amyot and Serville, Hémip., p. 273, 1843.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 6, 1844.
 Spinola, Tavola Sinot., p. 39, 1850.
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 174, 180, 1853.
 Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.
 Stål, Hemip. Afr., iii, p. 1, 1865.
 Stål, Enum. Hemip., i, pp. 90, 91, 1870.
 Walker, Cat. Heter., v, pp. 164, 165, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 220, 1882.
Acinocoris Hahn, Wanz. Ins., ii, p. 113, 1834. (Haplotype *calidus* Fabr.
 [= *lunaris* Gmel.])
 Brullé, Hist. des Ins., ix, p. 384, 1835 (cites *calidus* as type).
 Blanchard, Hist. des Ins., Hemip., p. 123, 1840.
Astemma Brullé, Hist. des Ins., ix, p. 383, 1835, part. [*abdominalis* Sign.].
Lecadra Signoret, Ann. Soc. Ent. Fr., Ser. 4, ii, p. 582, 1862 (type

614. *Euryophthalmus lunaris* Gmel.

- Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2178, 1788, *Cimex*.
 ||*lunatus* Fabricius, Mantissa Ins., ii, p. 302, 1787, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 167, 1794, *Lygacus*.
 Fabricius, Syst. Rhyn., p. 232, 1803, *Lygacus*.
 Stål, Hemip. Fabr., i, p. 81, 1868, *Acinocoris*.
 Stål, Enum. Hemip., i, p. 92, 1870, *Largus*.
 Walker, Cat. Heter., vi, p. 37, 1873, *Acinocoris*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Acinocoris*.
 Berg, Hemip. Argent., p. 112, 1879, *Largus*.
 Distant, Biol. Centr. Am., Heter., i, p. 221, 1882, *Largus*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894, *Acinocoris*.
calidus Fabricius, Syst. Rhyn., p. 230, 1803, *Lygacus*.
 Hahn, Wanz. Ins., ii, p. 114, fig. 194, 1834, *Acinocoris*.
 Blanchard, Hist. des Ins., Hemip., p. 128, 1840, *Acinocoris*.
lunulatus Fabricius, Syst. Rhyn., emend. at end of vol., 1803, *Lygacus*.
 Burmeister, Handb. d. Ent., ii, p. 282, 1835, *Largus*.
 Blanchard, Hist. des Ins., Hemip., p. 127, 1840, *Largus*.
interruptus Herrich-Schaeffer, Wanz. Ins., ix, p. 181, fig. 978, 1853, *Largus*.
 Localities: Calif. (Neotropical.)

615. *Euryophthalmus cinctus* (H. S.)

- Herrich-Schaeffer, Wanz. Ins., vii, p. 6, fig. 683, 1844, *Largus*.
 Uhler, Proc. Acad. Nat. Sci. Phila., xii, p. 230, 1861, *Largus*.
 Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus*.
 Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Largus*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Largus*.
 Distant, Biol. Centr. Am., Heter., i, pp. 223, 1882, and 412, 1893, pl. 20, figs.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894, *Largus*. [16-19, *Largus*.
 Gillette and Baker, Hemip. Colo., p. 28, 1895, *Largus*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Largus*.
 Barber, Brookl. Inst. Sci. Bul., p. 277, 1906, *Largus*.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg), *Largus*.

succinctus var. *a* (Say), Heter. N. Harm., p. 20, 1832; Fitch reprint, p. Say, Compl. Writ., i, p. 338, *Capsus*. [p. 783, *Capsus*.

varians Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.

Localities: Colo., Texas, N. Mex., Ariz., Nev., Calif., Ore. (Neotropical.)

616. **Euryophthalmus convivus** (Stål)

Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861, *Largus*.

Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.

Distant, Biol. Centr. Am., Heter., i, p. 222, pl. 20, figs. 13, 14, 1882, *Largus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894, *Largus*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, ix, p. 45, 1902, *Largus*.

Barber, Brookl. Inst., Sci. Bul., i, p. 277, 1906, *Largus*.

Bueno, Ent. News, xxiv, p. 22, 1913, *Largus*.

obtus (Walker), Cat. Heter., vi, p. 33, 1873, *Largus*.

†*succinctus* Osborn, Trans. Ia. Acad. Sci., i, p. 120, 1893, *Largus*.

†*anchorago* Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 124, 1910, *Stiretrus* (young).

†*cinctus* Van D., Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914, *Largus*.

Localities: Texas, Calif. (Mexico.)

617. **Euryophthalmus succinctus** (Linn.)

Linnaeus, Cent. Ins. Rar., p. 17, 1763, *Cimer*.

Linnaeus, Syst. Nat., edn. 12, 1, pt. 2, p. 727, 1767, *Cimer*.

Fabricius, Syst. Ent., p. 723, 1775, *Cimer*.

Goeze, Ent. Beytr., ii, p. 214, 1778, *Cimer*.

Fabricius, Spec. Ins., ii, p. 369, 1781, *Cimer*.

Fabricius, Mantissa Ins., ii, p. 303, 1787, *Cimer*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2175, 1788, *Cimer*.

Fabricius, Ent. Syst., iv, p. 170, 1794, *Lygaeus*.

Fabricius, Syst. Rhyn., p. 233, 1803, *Lygaeus*.

Burmeister, Handb. d. Ent., ii, p. 283, 1835, *Largus*.

Herrieh-Schaeffer, Wanz. Ins., vi, p. 78, fig. 648, 1842, *Largus*.

Stål, Hemip. Fabr., i, p. 80, 1868, *Largus*.

Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.

Uhler, Hayden's Surv. Terr. for 1871, p. 408, 1872, *Largus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Largus*.

Uhler, Stand. Nat. Hist., ii, p. 288, 1884, *Largus*.

Lintner, 2d Rept. N. Y. St. Ent., p. 164, *Largus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 172, 1909, *Largus*.

Morrill, U. S. Dept. Agr., Bur. Ent. Bul., 86, p. 94, 1910, *Largus*.

Smith, Cat. Ins. N. J., edn. 3, p. 140, 1910, *Largus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914, *Largus*.

rubrocinctus (De Geer), Mémoires, iii, p. 339, pl. 34, fig. 19, 1773, *Cimer*.

Localities: N. J., Pa., Md., "Carolina," Va., Ga., Fla., Texas, Colo., Ariz.

618. **Euryophthalmus davisi** (Barb.)

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Largus*.

Locality: Fla.

619. **Euryophthalmus bipustulatus** (Stål)

Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861, *Largus*.

Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus*.

Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.

Distant, Biol. Centr. Am., Heter., i, p. 223, pl. 20, figs. 20, 21, 1882, *Largus*.

socius (Stål), Of. Vet. Akad. Forh., xviii, p. 197, 1861, *Largus*.

Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus*.

Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.

pulverulentus (Walker), Cat. Heter., vi, p. 33, 1873, *Largus*.

Localities: Texas. (Mexico.)

620. **Euryophthalmus sellatus** (Guer.)

Guerin, in Sagra, Hist. de Cuba, Ins., p. 401, 1857, *Lygæus*.

Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914, *Largus*.

Localities: Fla. (West Indies.)

Genus **Stenomacra** Stål

Logotype *marginella* H. S.

Stål, Enum. Hemip., i, pp. 90, 97, 1870.

Walker, Cat. Heter., v, p. 165, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 226, 1883.

621. **Stenomacra marginella** (H. S.)

Herrich-Schaeffer, Wanz. Ins., ix, p. 182, 1853, *Largus*.

Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861, *Theraneis*.

Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Theraneis*.

Stål, Enum. Hemip., i, p. 98, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 226, pl. 20, fig. 23, 1883.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.

parallelus Herrich-Schaeffer, Wanz. Ins., ix, pl. 217, fig. 982, 1853, *Largus*.

Localities: Ariz., Calif. (Neotropical.)

622. **Stenomacra cliens** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Theraneis*.

Stål, Enum. Hemip., i, p. 98, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 226, pl. 20, fig. 22, 1883.

Bergroth, Revue d'Ent., xi, p. 262, 1892.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.

sallei Fallou, Revue d'Ent., x, p. 8, 1891.

†*marginella* Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.

Localities: N. Mex., Ariz.

Genus **Arhapse** H. S.

Haplotype *carolina* H. S.

Herrich-Schaeffer, Wanz. Ins., ix, pp. 175, 183, 1853.

Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.

Stål, Hemip. Afr., iii, p. 2, 1865.

Stål, Enum. Hemip., i, pp. 90, 98, 1870.

Walker, Cat. Heter., v, pp. 164, 165, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 226, 1883.

§*Arapse* Uhler, Hayden's Surv. Terr. for 1870, p. 471, 1872.

Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911.

[Dist.).

Japetus Distant, Biol. Centr. Am., Heter., i, p. 227, 1883 (type *sphaeroides*

623. *Arhapse carolina* H. S.

- Herrieh-Schaeffer, Wanz. Ins., ix, p. 183, fig. 968, 1853.
 Stål, Enum. Hemip., i, p. 98, 1870.
 Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
 Distant, Biol. Centr. Am., Heter., i, p. 227, 1883.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
 Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911 (*Araphe*).
 Localities: "Carolina," Ga., Ariz.

624. *Arhapse cicindeloides* Walk.

- Walker, Cat. Heter., vi, p. 36, 1873.
 Distant, Biol. Centr. Am., Heter., i, p. 227, pl. 21, fig. 2, 1883.
 Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910; xix, p. 28, 1911.
 Localities: Ariz. (Mexico.)

625. *Arhapse mimetica* Barb.

- Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911.
 Locality: Ariz.

Subfamily PYRRHOCORINAE (A. & S.)

- Amyot and Serville, Hémip., pp. xxxviii, 265, 1843, Groupe *Pyrrhocorides*.
 Dohrn, Cat. Hemip., p. 36, 1859, *Pyrrhocorida*.
 Stål, Hemip. Afr., iii, pp. 1, 3, 1865, *Pyrrhocorida*. (Key.)
 Douglas and Scott, Brit. Hemip., pp. 20, 163, 1865, *Pyrrhocoridae*.
 Stål, Enum. Hemip., i, p. 101, 1870, *Pyrrhocorina*. (Key.)
 Walker, Cat. Heter., v, p. 163, 1872, *Pyrrhocoridae*. (Key.)
 Berg, Hemip. Argent., p. 114, 1879, *Pyrrhocorina*.
 Distant, Biol. Centr. Am., Heter., i, p. 227, 1883, *Pyrrhocorinae*.
 Lethierry and Severin, Cat. Génl. Hémip., ii, p. 243, 1894, *Pyrrhocoridae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 99, 1903, *Pyrrhocorinac*.
 Oshanin, Verz. Palae. Hemip., i, p. 388, 1906, Div. *Pyrrhocoraria*.
 Banks, Cat. Neare. Hemip., p. 70, 1910, *Pyrrhocorinac*.
 Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Pyrrhocorinac*.

Genus *Pyrrhocoris* Fall.

Orthotype *apterus* Linn.

- Fallén, Nova Meth. Hemip., p. 9, 1814.
 Latreille, Fam. Nat. Reg. Anim., p. 421, 1825.
 Fallén, Hemip. Suec., Cimic., p. 45, 1829.
 Curtis, Brit. Ent., x, pl. 465, 1833.
 Herrieh-Schaeffer, Nomen. Ent., i, pp. 36, 43, 1835.
 Burmeister, Handb. d. Ent., ii, p. 283, 1835 (part).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
 Amyot and Serville, Hemip., p. 267, 1843.
 Flor, Rhyn. Livl., i, p. 210, 1860.
 Fieber, Europ. Hemip., pp. 43, 162, 1861 (part).
 Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861.
 Stål, Hemip. Afr., iii, p. 4, 1865.
 Douglas and Scott, Brit. Hemip., p. 163, 1865.
 Stål, Enum. Hemip., i, pp. 103, 115, 1870.
 Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.

- Walker, Cat. Heter., v, pp. 165, 167, 1872 (part).
 Distant, Biol. Centr. Am., Heter., i, p. 228, 1883.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 116, 1903. [Linn.)
 ||*Platynotus* Schilling, Beit. z. Ent., i, pp. 37, 57, 1829. (Haplotype *apterus*
 Hahn, Wanz. Ins., ii, p. 9, 1834. [Platynotus Schill.).
Meganotus Laporte, Essai Classif. Syst. Hémipt., p. 38, 1832 (n.n. for
 †*Phytocoris* Laporte, Essai Classif. Syst. Hémipt., p. 83, 1832 (for *apterus*).
 †*Lygaeus* Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832,
 †*Astemma* Spinola, Essai sur les Hémipt., p. 178, 1837 (1840). [(for *apterus*).
 Spinola, Tavola Sinot., p. 39, 1850.
 Kirkaldy, Can. Ent., xli, p. 31, 1909 (names *apterus* pseudotype).
 ||*Platyecoris* Gistel, Naturges. des Tierr., p. 149, 1848 (type *apterus*).

626. *Pyrhocoris apterus* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 447, 1758, *Cimex*.
 Poda, Ins. Graec., p. 58, 1861, *Cimex*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 440, 1762, *Cimex* (No. 11).
 Scopoli, Ent. Carn., p. 127, 1763, *Cimex*.
 Linnaeus, Syst. Nat., edn. 12, i, p. 727, 1767, *Cimex*.
 De Geer, Mémoires, iii, p. 276, 1773, *Cimex*.
 Fabricius, Syst. Ent., p. 721, 1775, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 213, 1778, *Cimex*.
 Fabricius, Spec. Ins., ii, p. 366, 1781, *Cimex*.
 Schrank, Ins. Austr., p. 281, 1781, *Cimex*.
 Retzius, Genera Spec. Ins., p. 86, 1783, *Cimex*.
 Fourcroy, Ent. Paris., p. 198, 1785, *Cimex*.
 Fabricius, Mantissa Ins., ii, p. 301, 1787, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat., edn. i, pt. 4, p. 2172, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 161, 1794, *Lygaeus*.
 Schrank, Fauna Boic., ii, p. 81, 1801, *Cimex*.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 244, 1801, *Lygaeus*.
 Wolff, Icon. Cimic., iii, p. 108, fig. 102, 1802, *Lygaeus*.
 Walckenaer, Fauna Paris., ii, p. 346, 1802, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 227, 1803, *Lygaeus*.
 Latreille, Genera Crust. Ins., iii, p. 122, 1807, *Lygaeus*.
 Latreille, Consid. Génl., p. 433, 1810 (as type of *Lygaeus*).
 Fallén, Spec. Nova Hemip., Disp., p. 4, 1814 (as type of *Lygaeus*).
 Lamarck, Hist. Nat. Anim. s. Vertéb., iii, p. 496, 1816, *Lygaeus*.
 Latreille, Fam. Nat. Règ. Anim., p. 421, 1825.
 Fallén, Suppl. Cimic. Suec., p. 6, 1826.
 Schilling, Beit. z. Ent., i, p. 57, 1829, *Platynotus*.
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 198, 1829, *Lygaeus*.
 Hahn, Wanz. Ins., i, p. 19, fig. 11, 1831, *Platynotus*.
 Laporte, Essai Classif. Syst. Hémipt., p. 38, 1832, *Meganotus*.
 Dufour, Rech. des Hémipt., p. 170, 1833.
 Curtis, Brit. Ent., x, pl. 465, 1833.
 Herrich-Schaeffer, Nomen. Ent., p. 43, 1835.
 Burmeister, Handb. d. Ent., ii, p. 286, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 383, 1835, *Astemma*.
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836, *Lygaeus*.
 Spinola, Essai sur les Hémipt., p. 178, 1837 (1840), *Astemma*.
 Costa, Cimic. Neap., Cent. i, p. 48, 1838, *Astemma*.

- Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
 Blanchard, Hist. des Ins., Hémip., p. 129, pl. 5, fig. 1, 1840, *Astemma*.
 Amyot and Serville, Hémip., p. 269, 1843.
 Kolenati, Melet. Ent., ii, p. 69, 1845, *Platynotus*.
 Flor, Rhyn. Livl., i, p. 212, 1860.
 Fieber, Europ. Hemip., p. 163, 1861.
 Douglas and Scott, Brit. Hemip., p. 164, 1865.
 Stål, Enum. Hemip., i, p. 115, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 228, pl. 21, fig. 25, 1883.
 Reuter, Revue d'Ent., iv, p. 231, 1885.
 Reuter, Rev. Synon., p. 214, No. 164, 1888.
 Kirkaldy, Can. Ent., xli, p. 31, 1909 (as type of *Astemma* Lep. & Serv.).
 Barber, Jl. N. Y. Ent. Soc., xix, p. 111, 1911. [Linn.).
 gregarius (Goeze), Ent. Beytr., ii, p. 213, 1778, *Cimex* (n.n. for *apterus*
 calmariensis Fallén, Hemip. Suec., Cimic, p. 45, 1829 (n.n. for *apterus*
 [Linn.).

Localities: N. J. (Costa Rica, Europe, Asia, Africa.)

Genus **Dysdercus** Am. & Serv.

Haplotype *koenigii* Fabr. = *cingulatus* Fabr.

- Amyot and Serville, Hémip., p. 272, 1843.
 Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861.
 Stål, Hemip. Afr., iii, pp. 4, 13, 1865.
 Stål, Enum. Hemip., i, p. 117, 1870.
 Distant, Biol. Centr. Am., Heter., i, p. 229, 1883.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 118, 1903 (names *cingulatus* Fabr. type).
 Kirkaldy, Entomol., xxxix, p. 256, 1906 (names *decussatus* type).
 † *Astemma* Laporte, Essai Classif. Syst. Hémip., p. 37, 1832 (names *Koenigii*
 [Fabr. as type).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 128, 1840, part.
 Piczodera Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 953, 1861 (type
 [*ruber* Sign.).

627. **Dysdercus mimus** (Say)

- Say, Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 783; Compl. Writ., i,
 Stål, Stet. Ent. Zeit., xxiii, p. 316, 1862. [p. 338, *Capsus*.
 Stål, Enum. Hemip., i, p. 120, 1870.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 229, pl. 21, fig. 4, 1883.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
 Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, N., 5, p. 18, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

Localities: Fla., Texas, Ariz., Calif.

628. **Dysdercus albidiventris** Stål

- Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854. (*Dysdercus* by error.)
 Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862 (excl. synon.).
 Stål, Enum. Hemip., i, p. 127, 1870 (excl. synon.).
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 229, pl. 21, figs. 5, 10, 1883.
 lunulatus Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861.
 Localities: Texas, Calif. (Neotropical.)

629. *Dysdercus concinnus* Stål

Stål, Of. Vet. Akad. Forh., xviii, p. 198, 1861.

Stål, Enum. Hemip., i, p. 121, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 231, pl. 21, figs. 11, 12, 15, 1883.

Barber, Brookl. Inst., Sci. Bul., i, p. 277, 1906.

mundus Walker Cat. Heter., v, p. 181, 1872.

Localities: Texas. (Neotropical.)

630. *Dysdercus obliquus* H. S.

Herrieh-Schaeffer, Wanz. Ins., vii, p. 19, fig. 701, 1844, *Pyrrhocoris*.

Stål, Stet. Ent. Zeit., xxiii, p. 316, 1862.

Stål, Enum. Hemip., i, p. 121, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

bimaculatus Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854. (§*Dysdercus*.)

Stål, Freg. Eugen. Resa, Ins., p. 253, 1859.

Localities: Ariz., Calif. (Neotropical.)

631. *Dysdercus peruvianus* (Guer.)

Guerin, Voy. Coquil. Zool., ii, pt. 2, p. 178, 1838, *Lygaeus*.

Guerin, Voy. Coquil., Zool., Atlas, pl. 12, fig. 16, 1838, *Dysdercus*.

Stål, Enum. Hemip., i, p. 121, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.

Localities: "Calif." (Neotropical, Haw. Isds.)

[Stål's record of Calif. may be erroneous.]

632. *Dysdercus andreae* (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758; edn. 12, i, pt. 2, p. 727, 1767,

Goeze, Ent. Beytr., ii, p. 214, 1778, *Cimex*.

[*Cimex*.

Herrieh-Schaeffer Wanz. Ins., Verz., p. 192, 1853, *Stiretrus*?

Stål, Berl. Ent. Zeit., x, p. 382, 1866.

Stål, Hemip. Fabr., i, p. 85, 1868.

Stål, Enum. Hemip., i, p. 122, 1870.

Walker, Cat. Heter., v, p. 181, 1878.

Hunter, U. S. Dept. Agr., Div. Ent., Bul. 38, n.s., p. 106, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

suturalis (Fabricius), Syst. Ent., p. 721, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 365, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 301, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2174, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 159, *Lygaeus*.

Wolff, Icones Cimic., i, p. 29, fig. 29, 1800, *Lygaeus*.

Fabricius, Syst. Rhyn., p. 225, 1803, *Lygaeus*.

Laporte, Essai Classif. Syst. Hémip., p. 37, 1832, *Astemma*.

Burmeister, Handb. d. Ent., ii, p. 285, 1835, *Pyrrhocoris*.

Spinola, Essai sur les Hémip., p. 177, 1837 (1840), *Astemma*.

Herrieh-Schaeffer, Wanz. Ins., vii, p. 17, fig. 698, 1844, *Pyrrhocoris*.

Localities: Fla. (West Indies.)

633. *Dysdercus suturellus* (H. S.)

Herrieh-Schaeffer, Wanz. Ins., vi, p. 76, fig. 645, 1842, *Pyrrhocoris*.

Stål, Enum. Hemip., i, p. 123, 1870.

Saunders, Ins. Inj. to Fruits, p. 387, fig. 397, 1883.

Riley and Howard, Insect Life, i, p. 234, 1889 (life history).

Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 95, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

Hunter, U. S. Dept. Agr., Bur. Ent., Circular 149, 1912.

Localities: Fla. (Neotropical.)

634. *Dysdercus ocreatus* (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 782; Compl. Writ., i, p.

Uhler, Check List, p. 17, 1886 (spelled *acrcatus*). [338, *Capsus*.

Locality: Ga.

635. *Dysdercus obscuratus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 230, pl. 21, figs. 8 and 9, 1883.

Locality: "S. St."

(Reference for this record lost.)

SERIES *ANONYCHIA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 18, 1912.

Family **TINGIDIDAE** (Lap.)

Laporte, Essai Classif. Syst. Hémi., p. 47, 1832, *Tingidites*.

Spinola, Essai sur les Hémi., p. 161, 1837, *Tingidites*.

Fieber, Ent. Monog., p. 27, 1844, *Tingideae*.

Spinola, Tavola Sinot., pp. 27, 43, 1850, *Tingiditae*.

Fieber, Genera Hydroc., p. 9, 1851, *Tingididea*.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 143, 1853, *Tingideae*.

Fieber, Europ. Hemip., pp. 24, 35, 116, 1860, *Tingididae*.

Stål, Hemip. Afr., iii, p. 25, 1865, *Tingidida*.

Stål, Enum. Hemip., iii, p. 115, 1873, *Tingitidae*.

Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 43, 1874, *Tingitidae*.

Uhler, Check List, p. 21, 1886, *Tingitidae*.

Puton, Cat. Hemip. Palae., edn. 3, p. 31, 1886, *Tingidides*.

Lethierry and Severin, Cat. Génl. Hémi., iii, p. 1, 1896, *Tingidar*.

Champion, Biol. Centr. Am., Heter., ii, p. 1, 1897, *Tingitidae*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 122, 1903, *Tingididae*.

Horvath, Ann. Mus. Natl. Hung., iv, p. 1, 1906, *Tingitidae* (monograph

Oshanin, Verz. Palae., Hemip., i, p. 395, 1908, *Tingididae*. [European forms).

Kirkaldy, Can. Ent., xl, p. 360, 1908, *Tingidac*. [Tingidoidae.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 27, 1912, Superfam.

Oshanin, Kat. Palae., Hemip., p. 41, 1912, Superfam. *Tingitoideae*.

Osborn and Drake, Ohio St. Univ. Bul. xx, p. 217, 1916, Superfam. *Tingitoida*.

Membranaceae Latreille, Fam. Nat. Règne Anim., p. 422, 1825 (part).

Amyot and Serville, Hemip., pp. xl, 295, 1843, *Membranacci*.

Dohrn, Cat. Hemip., p. 41, 1859, *Membranacei*.

Subfamily **PIESMINAE** (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xl, 300, 1843, Groupe *Piesmides*.
 Spinola, Tavola Sinot., p. 44, 1850, *Piesmoeideae*.
 Stål, Enum. Hemip., iii, p. 115, 1873, *Piesmina*.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 44, 1874, *Piesmina*.
 Uhler, Check List, p. 21, 1886, *Piesmina*.
 Puton, Cat. Hémip., Palae., edn. 3, p. 31, 1886, Tribe *Piesmini*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 1, 1896, *Piesmidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897, *Piesminae*.
 Horvath, Ann. Mus. Natl. Hung., iv, p. 2, 1906, *Piesminae*.
 Oshanin, Verz. Palae. Hemip., i, p. 395, 1908, *Piesmina*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 77, 1910, Fam. *Piesmidae*.
 Banks, Cat. Neare. Heter., p. 57, 1910, Tribe *Piesmini*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 14, 1911, *Piesmidae*. [*Piesmidae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912, Fam.
 Oshanin, Kat. Palae. Hemip., p. 41, 1912, Fam. *Piesmidae*.
 Osborn and Drake, Ohio St. Univ. Bul. xx, p. 218, 1916, Fam. *Piesmidae*.
Zosmenidae Dohrn, Cat. Hemip., p. 41, 1859.
 Douglas and Scott, Brit. Hemip., pp. 22, 237, 1865, *Zosmeridae*.

Genus **Piesma** Lep. & Serv.Logotype *capitata* (Wolff)

- Le Peletier and Serville, Encyc. Méth., x, p. 652, 1825 (as subgen. of *Tingis*).
 Brullé, Hist. Nat. des Ins., ix, p. 342, 1835. (Names *capitata* type.)
 Spinola, Essai sur les Hémip., p. 231, 1837.
 Blanchard, Hist. des Ins., Hémip., p. 113, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
 Amyot and Serville, Hémip., p. 301, 1843.
 Spinola, Tavola Sinot., p. 44, 1850.
 Stål, Enum. Hemip., iii, p. 115, 1873.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 44, 1874.
 Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897.
 Horvath, Ann. Mus. Natl. Hung., iv, p. 2, 1906.
Zosmenus Laporte, Essai Classif. Syst. Hémip., p. 49, 1832 (*Zosnanus*
 [ou p. 47; Type *maculatus* Lap.]).
 Burmeister, Handb. d. Ent., ii, p. 262, 1835, *Zosmerus*.
 Fieber, Ent. Monog., p. 30, 1844.
 Flor, Rhyn. Livl., i, p. 310, 1860.
 Fieber, Europ. Hemip., pp. 35, 116, 1861.
 Stål, Hemip. Afr., iii, p. 25, 1865.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 218, 1916.
Aspidotoma Curtis, Ent. Mo. Mag., i, p. 196, 1833 (only species *capitata*).

636. **Piesma cinerea** (Say)

- Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 793; Compl. Writ., i, p.
 Stål, Enum. Hemip., iii, p. 116, 1873. [349, *Tingis*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
 Gillette and Baker, Hemip. Colo., p. 56, 1895.
 Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

- Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 218, 1916.
 Localities: Ont., N. Y., Pa., N. C., Fla., Ohio, Ill., Kan., Colo., Calif.

Subfamily TINGIDINAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xl, 295, 1843, Groupe *Tingides*.
 Dohrn, Cat. Hemip., p. 42, 1859, *Tingidae*.
 Douglas and Scott., Brit. Hemip., pp. 23, 242, 1865, Section *Tingitina*.
 Stål, Enum. Hemip., iii, pp. 115, 116, 1873, *Tingitina*.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, pp. 44, 45, 1874, *Tingitina*.
 Uhler, Check List, p. 22, 1886, *Tingitina*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 31, 1886, Tribe *Tingitini*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 4, 1894, *Tingidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897, *Tingitinae*.
 Horvath, Ann. Mus. Natl. Hung., iv, pp. 2, 10, 1906, *Tingitinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 400, 1908, *Tingitina*.
 Banks, Cat. Neare. Hemip., p. 55, 1910, *Tingitini*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 77, 1910, Fam. *Tingididae*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 14, 1911, *Tingitidae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 57, 1912, Fam. *Tingitidae*.
 Oshanin, Kat. Palae. Hemip., p. 42, 1912, Fam. *Tingitidae*. [*Tingididae*.]
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Tingididae*.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 219, 1916, *Tingitidae*.

TRIBE TINGIDINI (Stål)

- Stål, Enum. Hemip., iii, pp. 116, 118, 1873, Div. *Tingitaria*.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, pp. 46, 47, 1874, Div. *Tingitaria*.
 Champion, Biol. Centr. Am., Heter., ii, p. 5, 1897, Group *Tingitini*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 130, 1903, Div. *Tingitaria*.
 Horvath, Ann. Mus. Natl. Hung., iv, pp. 10, 13, 1906, Div. *Tingitaria*.
 Oshanin, Verz. Palae. Hemip., i, p. 401, 1908, Div. *Tingitaria*.
 Oshanin, Kat. Palae. Hemip., p. 42, 1912, Tribe *Tingitaria*.

Genus *Acalypta* Westw.

***Orthotype carinata* Panz.**

- Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (names *carinata* Stål, Enum. Hemip., iii, pp. 118, 122, 1873. [type]).
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 51, 1874.
 Horvath, Ann. Mus. Natl. Hung., iv, pp. 13, 24, 1906.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 220, 1916.
Orthostira Fieber, Ent. Monog., pp. 29, 46, 1844.
 Flor, Rhyn. Livl., i, pp. 330, 331, 1860 (as subgen. of *Monanthia*).
 †*Orthostira* Fieber, Europ. Hemip., pp. 36, 130, 1861.
 Douglas and Scott, Brit. Hemip., p. 260, 1865.

637. *Acalypta thomsonii* Stål

- Stål, Enum. Hemip., iii, p. 122, 1873.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 39, 1916.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 220, 1916.
 Localities: S. C., Va.

637¼. *Acalypta lillianis* Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 39, 1916.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 221, figs. 1, 2, 1916.

Localities: Ont., Me., N. H., N. Y., N. J., Mich.

637½. *Acalypta ovata* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 9, 1916.

Localities: Ont., N. H.

Genus *Fenestrella* O. & D.Orthotype *ovata* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 222, 1916.

637¾. *Fenestrella ovata* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 223, fig. 3, 1916.

Locality: Ohio.

Genus *Corythucha* StålLogotype *fuscigera* Stål

Stål, Enum. Hemip., iii, pp. 119, 122, 1873.

Uhler, Check List., p. 22, 1886, *Corythucha*.Provancher, Pet. Faune Ent. Can., iii, p. 157, 1887, *Corythucha*.

Champion, Biol. Centr. Am., Heter., ii, p. 6, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 57.

[species.]

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 224, 1916. (Key to Ohio

638. *Corythucha ciliata* (Say)Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 793; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 123, 1873. [348, *Tingis*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 414, 1878, *Tingis*.Lintner, 4th Rept. N. Y. St. Ent., p. 107, 1888, *Corythucha*.Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Corythucha*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythucha*.Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythucha*.Morill, Psyche, x, 133, 1903, *Corythucha*.Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Corythucha*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythucha*.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 225, pl. 10, fig. h, 1916.

hyalina Herrich-Schaeffer, Wanz. Ins., v, p. 84, fig. 532, 1839, *Tingis*.

Localities: Quebee, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Ala., Ohio, Ill., Colo.

638¼. *Corythucha pallida* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 230, 1916.

a. var. ulmi, Osborn and Drake, Ohio St. Univ. Bul., xx, p. 231, 1916.

Locality: Ohio.

639. *Corythucha arcuata* (Say)Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 123, 1873. [350, *Tingis*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 415, 1878, *Tingis*.Uhler, Stand. Nat. Hist., ii, p. 284, fig. 327, 1884, *Corythucha*.

- Lintner, 4th Rept. N. Y. St. Ent., p. 108, 1888, *Corythuca*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythuca*.
 Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythuca*.
 Morrill, Psyche, x, p. 127, 1903, *Corythuca*.
 Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Corythuca*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908; xviii, p. 31, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythuca*.
 Van Duzee, Can. Ent., xlv, p. 323, 1912, *Corythuca*.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 227, pl. 9, 1916.
 †*juglandis* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887, *Corythuca*.
 †*ciliata* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887, *Corythuca*.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md.,
 D. C., N. C., Ala., Ohio, Ill., Texas, Colo.

639¼. ***Corythucha crataegi*** O. & D.

- Osborn and Drake, Ohio St. Univ. Bul., xx, p. 229, pl. 10, fig. f, 1916.
 †*arcuata* var. *crataegi* Morrill, Psyche, x, p. 132, 1903 (egg only).
 Bueno, Can. Ent., xlv, p. 212, 1912 (as species).
 Localities: N. Y., Mass., Ohio.

640. ***Corythucha pergandei*** Heid.

- Heidemmann, Proc. Ent. Wash., viii, p. 10, fig. 2, 1906, *Corythucha*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908; xviii, p. 31, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythucha*.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 228, figs. 4, 5, 1916.
 †*incurva* Van Duzee, Can. Ent., xl, p. 111, 1908, *Corythucha*.
 Localities: Ont., Mass., N. Y., N. J., Pa., Md., Va., Ohio, Ill.,
 Kan.

640¼. ***Corythucha pruni*** O. & D.

- Osborn and Drake, Ohio St. Univ. Bul., xx, p. 231, 1916.
 Locality: D. C.

641. ***Corythucha incurvata*** Uhl.

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 280, 1894, *Corythucha*.
 Localities: Ariz., Calif., Oregon. (Mexico.)

642. ***Corythucha caelata*** Uhl.

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythucha*.
 Localities: Calif. (Mexico.)

643. ***Corythucha fuscigera*** (Stål)

- Stål, Stet. Ent. Zeit., xxiii, p. 323, 1862, *Tingis*.
 Stål, Enum. Hemip., iii, p. 122, 1873.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893, *Corythucha*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894, *Corythucha*.
 Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythucha*.
 Champion, Biol. Centr. Am., Heter., ii, p. 7, pl. 1, fig. 6, 1897.
 Champion, Trans. Ent. Soc. Lond. for 1898, p. 57.
 lucida Walker, Cat. Heter., vi, p. 191, 1873, *Monanthia*.
 obliqua Osborn and Drake, Ohio Jl. Sci., xvii, p. 11, 1916.
 Localities: Colo., Utah, Calif. Ore. (Mexico.)

644. *Corythucha decens* (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 324, 1862, *Tingis*.

Stål, Enum. Hemip., iii, p. 123, 1873.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 204, *Corythucha*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythucha*.

Champion, Biol. Centr. Am., Heter., ii, p. 7, pl. 1, fig. 7, 1897.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.

Localities: Pa., D. C., Texas, Calif.

645. *Corythucha marmorata* (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 415, 1878, *Tingis*.

Van Duzee, Can. Ent., xxi, p. 5, 1889, *Corythucha*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythucha*.

Howard, U. S. Dept. Agr., Div. Ent., Bul. n.s. 44, p. 89, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 19, 1907; ix, p. 173, 1909,

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914. [*Corythucha*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Osborn and Drake, Ohio St. Univ. Bul. xx, p. 226, 1916. [p. 99, 1898.

[*irrorata* Riley MS] Howard, U. S. Dept. Agr., Div. Ent., Bul. n.s. No. 10,

Localities: Ont., Me., Mass., N. Y., N. J., D. C., N. C., Fla., Ala.,

Ohio, Colo., N. Mex., Calif.

645½. *Corythucha contracta* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 230, 1916.

Locality: Ohio.

646. *Corythucha floridana* Heid.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 173, 1909, *Corythucha* (name only).

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 236, figure, 1909, *Corythucha*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Corythucha*.

Locality: Fla.

647. *Corythucha gossypii* (Fabr.)

Fabricius, Ent. Syst., iv, p. 78, 1794, *Acanthia*.

Fabricius, Syst. Rhyng., p. 126, 1803, *Tingis*.

Latreille, Genera Crust. Ins., iii, p. 140, 1807, *Tingis*.

Burmeister, Handb. d. Ent., ii, p. 259, 1835, *Tingis*.

Herrich-Schaeffer, Wanz. Ins., v, p. 85, fig. 534, 1839, *Tingis*.

Fieber, Ent. Monog., p. 104, pl. 9, fig. 5, 1844, *Tingis*.

Stål, Hemip. Fabr., i, p. 93, 1868, *Galeatus*.

Stål, Enum. Hemip., iii, p. 123, 1873.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907, *Corythucha*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythucha*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Corythucha*.

Localities: N. Y., N. J., Fla. (West Indies.)

648. *Corythucha hispida* Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythucha*.

Localities: Ariz., Calif. (Mexico.)

648¾. *Corythucha spinosa* Dug.

Duges, La Nat., Ser. 2, i, p. 207, pl. 18, figs. 1-3, 1889, *Tingis*.

Champion, Biol. Centr. Am., Heter., ii, p. 8, pl. 1, fig. 9, 1897.

Localities: Calif. (Mexico.)

648½. **Corythucha setosa** Champ.

Champion, Biol. Centr. Am., Heter., i, p. 8, pl. 1, fig. 10, 1897.

Localities: Calif. (Guatemala.)

Corythucha cydoniae FitchFitch, Country Gentleman, xiv, p. 25, Febr., 1861, *Tingis* (invalid).

Lintner, 1st Rept., N. Y. St. Ent., p. 311, 1885 (notice only).

Locality: N. Y.

649. **Corythucha juglandis** FitchFitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 466, No. 193, 1856, *Tingis*.
Stål, Enum. Hemip., iii, p. 123, 1873.Van Duzee, 20th Rept., N. Y. St. Ent., for 1904, p. 549, 1905, *Corythucha*.[*polygrapha* Uhl. MS], Lintner, 4th Rept., N. Y. St. Ent., p. 109, 1888.

Localities: Me., N. Y., N. J., Ill., Idaho, Br. Col.

649½. **Corythucha immaculata** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 11, 1916.

Locality: Calif.

649¾. **Corythucha mollicula** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 12, 1916.

Locality: Mich.

649¾. **Corythucha distincta** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 13, 1916.

Locality: Colo.

649¾. **Corythucha celtidis** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 227, 1916.

Locality: Ohio.

649½. **Corythucha aesculi** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 232, pl. 10, fig. g, 1916.

Locality: Ohio.

649¾. **Corythucha bulbosa** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 232, pl. 10, fig. e, 1916.

carbonata Uhler, MS.

Localities: Md., Ohio.

649¾. **Corythucha associata** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 14, 1916.

Locality: Tenn.

Genus **Dolichocysta** Champ.Haplotype *venusta* Champ.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 56.

650. **Dolichocysta venusta** Champ.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 57, pl. 2, fig. 1.

Locality: Colo. (Mexico.)

Genus **Galeatus** Curt.Haplotype *spinifrons* Fall.Curtis, Newman's Ent. Mag., i, p. 196, 1833 (for *spinifrons* Fall.).

Spinola, Essai sur les Hémip., p. 164, 1837.

- Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
 Fieber, Ent. Monog., p. 22, 1844 (as synonym of *Tingis*).
 Stål, Enum. Hemip., iii, p. 118, 1873.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 48, 1874.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 131, 1903.
 Horvath, Ann. Mus. Natl. Hung., iii, p. 566, 1905; iv, pp. 13, 49, 1906; ix, p. Osborn and Drake, Ohio St. Univ. Bul. xx, p. 236, 1916. [337, 1911.
Cadmilos Distant, Ann. Soc. Ent. Belg., liii, p. 113, 1909. [Haplotype
 Distant, Fauna Br. Ind., Rhyn., v, p. 107, 1910. [retiarus Dist.)

651. *Galeatus peckhami* (Ashm.)

- Ashmead, Ent. Am., iii, p. 156, 1887, *Sphaerocysta*.
 Van Duzee, Can. Ent., xxi, p. 5, 1889.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.
 Parshley, Ent. News, xxvii, p. 105, 1916.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 236, 1916.
 Localities: Ont., N. H., Mass., Wise., Manitoba, N. Mex.

Genus *Stephanitis* StålLogotype *pyri* Fabr.

- Stål, Enum. Hemip., iii, pp. 119, 123, 1873.
 Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 53, 1874.
 Horvath, Ann. Mus. Natl. Hung., iv, pp. 14, 54, 1906; x, p. 319, 1912.
 Oshanin, Kat. Palae. Hemip., pp. 43, 130, 1912 (names *pyri* type).
 †*Tingis* Laporte, Essai Classif. Syst. Hémip., p. 48, 1832 (names *pyri*
 Burmeister, Handb. d. Ent., ii, p. 259, 1835 (part). [pseudotype).
 Spinola, Essai sur les Hémip., p. 166, 1837.
 Blanchard, Hist. des Ins., Hémip., p. 112, 1840.
 Amyot and Serville, Hémip., p. 296, 1843.
 Fieber, Ent. Monog., p. 101, 1844 (part).
 Flor, Rhyng. Livl., i, pp. 359, 365, 1860.
 Fieber, Europ. Hemip., pp. 36, 128, 1861 (part).
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 12, 1894.
Leptobyrsa Stål, Enum. Hemip., iii, pp. 119, 123, 1873. (Haplotype *steinii*
 Champion, Biol. Cent. Am., Heter., ii, p. 25, 1897. [Stål).
 Champion, Trans. Ent. Soc. Lond. for 1898, p. 58.
 Osborn and Drake, Ohio St. Univ. Bul., xx, p. 240, 1916.
 †*Leptostyla* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887.
Cadamustus Distant, Ann. Soc. Ent. Belg., xlvii, p. 47, 1903 (type *typicus*).
Maccenas Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Tingis*
Mokanna Distant, Fauna Br. Ind., Rhyn., v, p. 111, 1910. [L. & S.).

652. *Stephanitis pyrioides* Scott

- Scott, Ann. Mag. Nat. Hist., Ser. 4, xiv, p. 440, 1874.
 Oshanin, Kat. Palae. Hemip., p. 44, 1912.
 Weiss, Ent. News, xxvii, p. 163, 1916. [*pyrioides* Scott).
azalcae Horvath, Ann. Mus. Natl. Hung., iii, p. 568, 1905 (n.n. for
 Horvath, Ann. Mus. Natl. Hung., iv, pp. 55, 56, 1906, x, p. 333, 1912.
 Oshanin, Kat. Palae. Hemip., p. 130, 1912.
 Localities: N. J., D. C. (Japan.)

653. *Stephanitis rhododendri* Horv.

Horvath, Ann. Mus. Natl. Hung., iii, p. 567, 1905.

Horvath, Synop. Tingit. Reg. Palae., p. 55, 1906.

†*oblonga* (Provancher), Pet. Faune Ent. Can., iii, p. 159, 1887, *Leptostyla*.

Leptobyrsa sp. nov., Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

explanata Heidemann, Proc. Ent. Soc. Wash., x, p. 105, pl. 4, figs. *d* and *c*,
[1908, *Leptobyrsa*.

Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Leptobyrsa*.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910, *Leptobyrsa*. [history].

Crosby and Hadley, Jl. Econ. Ent., viii, p. 409, 1915, *Leptobyrsa* (life

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 240, figure, 1916, *Lepto-*
[*byrsa*.

Localities: Me., Mass., N. Y., N. J., Pa., Md., D. C., W. Va., N. C.,
Fla., Ohio. (Europe.)

Gargaphia Stål

Logotype *patricia* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 324, 1862 (as subgen. of *Monanthia*).

Stål, Enum. Hemip., iii, pp. 119, 124, 1873.

Uhler, Stand. Nat. Hist., ii, p. 285, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 159, 1887.

Champion, Biol. Centr. Am., Heter., ii, p. 9, 1897.

Champion, Proc. Ent. Soc. Lond. for 1898, p. 58.

Osborn and Drake, Ohio St. Univ. Bul. xx, p. 233, 1916.

654. *Gargaphia tiliae* (Walsh)

Walsh, Proc. Ent. Soc. Phila., iii, p. 408, 1864, *Tingis*.

Uhler, Check List., p. 22, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 159, 1887.

Bergroth, Revue d'Ent., xi, p. 264, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.

Gillette and Baker, Hemip. Colo., p. 57, 1895.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 234, 1916.

fasciata Stål, Enum. Hemip., iii, p. 125, 1873.

Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

a. var. amorphae (Walsh)

Walsh, Proc. Ent. Soc. Phila., iii, p. 409, 1864, *Tingis*.

Uhler, Check List., p. 22, 1886.

Bergroth, Revue d'Ent., xi, p. 264, 1892.

Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 235, 1916.

Localities: N. Y., N. J., Pa., Va., Ohio, Ill., Kan., Colo.

655. *Gargaphia iridescens* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 10, pl. 2, fig. 1, 1897.

Localities: Colo., Texas. (Mexico.)

656. *Gargaphia opacula* Uhl.

Uhler, N. Am. Fauna, vii, p. 263, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.

Van Duzee, Trans. San Diego, Soc. Nat. Hist., ii, p. 11, 1914.

Localities: N. Mex., Calif.

657. *Gargaphia angulata* Heid.

Heidemann, Can. Ent., xxxi, p. 301, 1899.

Chittenden, U. S. Dept. Agr., Div. Ent., Bul. n.s. xxiii, p. 32, fig. 8, 1900.

Smith, Cat. Ins. N. J., edn. 3, fig. 43, on p. 149, 1910.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 233, fig. 6, 1916.

Localities: Mass., Pa., D. C., N. C., Tenn., Ala., Ohio.

[*Gargaphia undulata* Heid MS]

Heidemann, Proc. Ent. Soc. Wash., iv, p. 493, 1900.

Locality: D. C.

658. *Gargaphia solani* Heid.

Heidemann, Proc. Ent. Soc. Wash., xvi, p. 136, 1914.

Fink, U. S. Dept. Agr., Bul. 239, 1915.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 235, fig. 7, 1916.

Localities: Va., Ohio, Mo., Okl., Texas.

Genus *Leptostyla* StålLogotype *oblonga* Say

Stål, Enum. Hemip., iii, pp. 120, 125, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 11, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 60.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 237, 1916.

[Stål].

Gelchossa Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Leptostyla*)659. *Leptostyla oblonga* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 325, 1825; Compl. Writ., ii, p. 248.

Stål, Enum. Hemip., iii, p. 126, 1873.

[Tingis.]

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 238, 1916.

Localities: N. J., Md., Mo.

660. *Leptostyla constricta* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 20, pl. 2, fig. 6, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 19, 1907.

costofasciata Drake, Ohio Jl. Sci., xvi, p. 326, 1916.†*clitoriae* Osborn and Drake, Ohio St. Univ. Bul., xx, p. 239, fig. 8, 1916.

Localities: Pa., D. C., S. C., Ind., Tenn.

661. *Leptostyla clitoriae* Heid.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 137, pl. 10, fig. 6, egg; p. 180.

[fig. 4, 1911, description.]

heidemanni Osborn and Drake, Ohio St. Univ. Bul., xx, p. 238, 1916.

Localities: Mass., N. Y., Pa., D. C., Md., Ark.

Genus *Leptodictya* StålLogotype *ochropa* Stål

Stål, Enum. Hemip., iii, p. 127, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 23, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 60.

Van Duzee, Check List. Hemip., p. 26, 1916, *Leptodicta* by error.

662. *Leptodictya plana* Heid.

Heidemann, Proc. Ent. Soc. Wash., xv, p. 1, fig. 1, 1913.

†*tabida* Banks, Cat. Neare. Hemip., p. 57, 1910, *Monanthia*.

Locality: Okl.

663. *Leptodictya simulans* Heid.

Heidemann, Proc. Ent. Soc. Wash., xv, p. 3, fig. 2, 1913.

Localities: Va., S. C., Ala.

Genus *Acanthocheila* Stål

Logotype *armigera* Stål

Stål, Rio Jan. Hemip., i, p. 61, 1860 (subgen. of *Monanthia*).

Stål, Enum. Hemip., iii, pp. 119, 127, 1873 (spelled *Acanthochila* on p. 127).

Champion, Biol. Centr. Am., Heter., ii, p. 28, 1897, *Acanthochila*.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 60, *Acanthochila* (names
[*armigera* type]).

664. *Acanthocheila exquisita* Uhler.

Uhler, Proc. Ent. Soc. Wash., i, p. 143, 1889.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Locality: Fla.

Genus *Physatocheila* Fieb.

Logotype *quadrimaculata* Wolff

Fieber, Ent. Monog., p. 80, 1844 (subgen. of *Monanthia*).

Herrich-Schaeffer, Wanz. Ins., ix, p. 152, 1853 (subgen. of *Monanthia*).

Flor, Rhyn. Livl., i, p. 349, 1860 (subgen. of *Monanthia*).

Fieber, Europ. Hemip., p. 120, 1861 (subgen. of *Monanthia*).

Stål, Hemip. Afr., iii, p. 28, 1865, *Physatochila* (subgenus).

Stål, Enum. Hemip., iii, pp. 120, 129, 1873, *Physatochila*.

Walker, Cat. Heter., vi, p. 185, 1873 (*Monanthia* subdiv. *Physatochilae*).

Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 56, 1874, *Physatochila*.

Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.

Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 21, 1894, *Physatochila*.

Horvath, Ann. Mus. Natl. Hung., iv, p. 94, 1906.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 242, 1916. [tochila L. & S.).

Phyllochisme Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Physa-*

665. *Physatocheila plexa* (Say)

Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p.

Stål, Enum. Hemip., iii, p. 129, 1873. [349, *Tingis*.

Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.

Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent. for 1904, p. 549, 1905.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 242, 1916.

Localities: Quebec, Ont., Me., N. Y., Pa., D. C., Ind., Ill., W. Va.,
Mich.

665¼. *Physatocheila brevirostris* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 243, 1916.

Localities: N. Y., Ohio.

665½. *Physatocheila variegata* Parsh.

Parshley, Psyche, xxiii, p. 166, 1917.

Localities: Mass., Conn., N. Y.

Genus **Leptoypha** StålHaplotype *mutica* Say

Stål, Enum. Hemip., iii, pp. 121, 129, 1873.

Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 61.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 241, 1916.

666. **Leptoypha mutica** (Say)Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p. Stål, Enum. Hemip., iii, p. 129, 1873. [349, *Tingis*.

Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.

Uhler, N. Am. Fauna, vii, p. 264, 1893.

Wirtner, Ann. Carn. Mus., iii, p. 203, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Dickerson and Weiss, Ent. News, xxvii, p. 308, 1916 (life history).

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 241, 1916.

Localities: Quebec, N. Y., N. J., Ind., Texas.

666½. **Leptoypha brevicornis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 32, pl. 2, fig. 28, 1897.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.

Localities: Ariz. (Mexico.)

Genus **Melanorhopala** StålLogotype *clavata* StålStål, Enum. Hemip., iii, p. 130, 1873 (subgen. of *Tingis*).

Horvath, Ann. Mus. Natl. Hung., vi, p. 565, 1908.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 243, 1916.

†*Cantacader* Ashmead, Can. Ent., xviii, p. 20, 1886.†*Lasiacantha* Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 18, 1894†*Tingis* Banks, Cat. Neare. Hemip., p. 57, 1910. [(part).]667. **Melanorhopala clavata** Stål

Stål, Enum. Hemip., iii, p. 130, 1873.

Horvath, Ann. Mus. Natl. Hung., vi, p. 564, 1908.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.

Bueno, Can. Ent., xl, p. 166, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 244, pl. 10, fig. d, 1916.

henshawi Ashmead, Can. Ent., xviii, p. 20, 1886, *Cantacader*.

Localities: Me., Mass., N. Y., N. J., Wis., Manitoba.

668. **Melanorhopala lurida** Stål

Stål, Enum. Hemip., iii, p. 131, 1873.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 244, 1916.

Localities: N. Y., Ohio, Ill., Kan.

669. **Melanorhopala uniformis** Stål

Stål, Enum. Hemip., iii, p. 131, 1873.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, 1916.

Localities: Ill., S. Dak.

669½. **Melanorhopala duryi** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 15, 1916.

Locality: Texas.

Genus **Dichocysta** Champ.Haplotype *pictipes* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 33, 1898.

670. **Dichocysta pictipes** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 34, pl. 3, figs. 1, 2, 1898.

Heidemann, Proc. Ent. Soc. Wash., iv, p. 339, 1898.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.

Localities: Ariz. (Neotropical.)

Genus **Alveotingis** O. & D.Orthotype *grossocerata* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, 1916.

670½. **Alveotingis grossocerata** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, fig. 9, 1916.

Localities: Me., Pa.

Genus **Teleonemia** CostaType *funera* Costa

Costa, Ann. Mus. Zool., ii, p. 144, 1864.

Stål, Enum. Hemip., iii, pp. 122, 131, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 34, 1898.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 61.

Distant, Fauna Br. Ind., Rhyn., ii, p. 142, 1903 (names *funera* Costa type).*Americia* Stål, Enum. Hemip., iii, p. 131, 1873 (subgen. of *Tingis*: type
[*albilatera* Stål]).*Amaurosterphus* Stål, Enum. Hemip., iii, p. 131, 1873 (subgen. of *Tele-*
[*onemia*; Haplotype *morio* Stål]).†*Lasiacantha* Lethierry and Severin, Cat. Génl. Hémip., iii, p. 18, 1894
[(part)].671. **Teleonemia nigrina** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 41, pl. 3, fig. 13, 1898.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.

Barber, Brookl. Inst. Sci. Bul., i, p. 281, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.

Localities: Texas, N. Mex., Calif. (Neotropical.)

672. **Teleonemia variegata** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 42, pl. 3, fig. 15, 1898.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.

Localities: Ariz. (Mexico.)

673. **Teleonemia sacchari** (Fabr.)Fabricius, Ent. Syst., iv, p. 77, 1794, *Acanthia*.Fabricius, Syst. Rhyn., p. 126, 1803, *Tingis*.Herrieh-Schaeffer, Wanz. Ins., v, p. 85, fig. 533, 1839, *Monanthia*.Fieber, Ent. Monog., p. 76, pl. 6, figs. 22-25, 1844, *Monanthia*.

- Stål, Europ. Hemip., iii, p. 132, 1873.
 Walker, Cat. Heter., vi, p. 191, 1873, *Monanthia*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 202 (part).
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
 Champion, Biol. Centr. Am., Heter., ii, p. 40, 1898 (note).
 Champion, Trans. Ent. Soc. Lond. for 1898, p. 62 (note).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 22, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Localities: Fla. (Neotropical.)

674. *Teleonemia scrupulosa* Stål

- Stål, Enum. Hemip., iii, p. 132, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 40, pl. 3, fig. 12, 1898.
 Stål, Hemip. Fabr., i, p. 92, 1868.
 Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 22, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Localities: Texas, Fla. (West Indies, Mexico.)

675. *Teleonemia belfragei* Stål

- Stål, Enum. Hemip., iii, p. 132, 1873.
 Champion, Trans. Ent. Soc. Lond. for 1898, pl. 3, fig. 8.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 173, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Localities: Fla., Texas.

Teleonemia [elongata Uhl. MS]

- Uhler, Check List, p. 22, 1886.
 Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
 Locality: N. J.

[Probably is one of the preceding species.]

Genus *Atheas* Champ.

Logotype *nigricornis* Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 44, 1898.
 Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 231, 1909.

676. *Atheas insignis* Heid.

- Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 232, figure, 1909.
 Localities: Md., D. C.

677. *Atheas exiguus* Heid.

- Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 233, figure, 1909.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Locality: Fla.

678. *Atheas mimeticus* Heid.

- Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 234, figure, 1909.
 Localities: Wis., Minn., Kan.

679. *Atheas austroriparius* Heid.

- Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 235, figure, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Localities: Fla., Texas.

Genus **Acysta** Champ.
 Logotype *integra* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 46, 1898.

680. **Acysta perseae** Heid.

Heidemann, Proc. Ent. Soc. Wash., x, p. 103, pl. 4, figs. a, b, c, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Localities: Fla., La.

Genus **Monanthia** Lep. & Serv.
 Logotype (*echii*) Fabr. = *rotundata* H. S.

Le Peletier and Serville, Encyc. Méth., x, p. 653, 1825.

Laporte, Essai Classif. Syst. Hémip., p. 48, 1832 (subgen. of *Tingis*; names
 Burmeister, Handb. d. Ent., ii, p. 260, 1835 (part). [*echii* type].

Spinola, Essai sur les Hémip., p. 167, 1837 (1840), (sect. 2 only).

Herrich-Schaeffer, Wanz. Ins., iv, p. 49, 1839 (part).

Fieber, Ent. Monog., p. 58, 1844 (Sect. b of subgen. *Physatocheila*).

Flor, Rhyn. Livl., i, pp. 328, 349, 1860.

Fieber, Europ. Hemip., pp. 36, 119, 1861 (part).

Stål, Hemip. Afr., iii, p. 26, 1865 (part).

Douglas and Scott, Brit. Hemip., p. 243, 1865 (part).

Stål, Enum. Hemip., iii, pp. 122, 133, 1873.

Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 58, 1874.

Champion, Biol. Centr. Am., Heter., ii, p. 47, 1898.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 64.

Distant, Fauna Br. Ind., Rhyn., ii, p. 144, 1907 (gives *echii* Sehr. as type).

Horvath, Ann. Mus. Natl. Hung., iv, p. 97, 1906.

Dictyla Stål, Of. Vet. Akad. Forh., xxxi, p. 57, 1874. (Haplotype
 [*platyomia* Fieb.]

681. **Monanthia labeculata** Uhl.

Uhler, N. Am. Fauna, vii, p. 264, 1893.

Locality: Calif.

TRIBE *SERENTHIINI* (Stål)

Stål, Enum. Hemip., iii, pp. 116, 117, 1873, Div. *Serenthiaria*.

Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 46, 1874, Div. *Serenthiaria*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 126, 1903, Div. *Serenthiaria*.

Horvath, Ann. Mus. Natl. Hung., iv, p. 107, 1906, Div. *Serenthiaria*.

Oshanin, Verz. Palae. Hemip., i, p. 457, 1908, Div. *Serenthiaria*.

Oshanin, Kat. Palae. Hemip., p. 46, 1912, Tribe *Serenthiaria*.

†*Piesmidac* Dohrn, Cat. Hemip., p. 42, 1859. [= *Serenthia*].

Agrammidac Douglas and Scott, Brit. Hemip., pp. 24, 242, 1865 (*Agramma*

Genus **Agrammodes** Uhl.
 Haplotype *costatus* Uhl.

Uhler, Hemip. Colo., p. 56, 1895.

682. **Agrammodes costatus** Uhl.

Uhler, Hemip. Colo., p. 56, 1895.

Locality: Colo.

Superfamily REDUVIOIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 72, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 19, 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 48, 1912.

PHALANX ENICOCEPHALIFORMES Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 74, 1910, *Henicocephaliformes*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 25, 49, 1912, *Henicocephaliformes*.

Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Henicocephaliformes*.

Family ENICOCEPHALIDAE Stål

Stål, Rio Jan. Hemip., i, p. 81, 1860.

Ashmead, Ent. News, iii, p. 191, 1892, *Enicocephalinae*.

Kirkaldy, Can. Ent., xl, p. 360, 1908.

‡*Henicocephalida* Stål, Hemip. Afr., iii, p. 165, 1865.

Berg, Hemip. Argent., p. 180, 1879, *Henicocephalidae*.

Karsch, Berl. Ent. Zeit., xxxvii, p. 485, 1892, *Henicocephalidae*.

Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 67, 1894, *Henicocephalidae*.

Champion, Biol. Centr. Am., Heter., ii, p. 158, 1898, *Henicocephalidae*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 193, 1903, *Henicocephalidae*.

Enderlein, Zool. Anzeig., xxvii, p. 783, 1904, *Henicocephalidae*.

Oshanin, Verz. Palae. Hemip., i, p. 504, 1908, *Henicocephalidae*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 74, 1910, *Henicocephalidae*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 55, 1912, *Henicocephalidae*.

Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Henicocephalidae*.

Genus *Enicocephalus* Westw.

Orthotype *flavicollis* Westw.

Westwood, Trans. Ent. Soc. Lond., ii, p. 22, 1837.

Stål, Rio Jan. Hemip., i, p. 81, 1860.

Walker, Cat. Heter., viii, p. 22, 1873.

Ashmead, Proc. Ent. Soc. Wash., ii, p. 328, 1892.

‡*Henicocephalus* Stål, Hemip. Afr., iii, p. 166, 1865.

Bergroth, Revue d'Ent., viii, p. 319, 1889.

Karsch, Berl. Ent. Zeit., xxxvii, p. 485, 1892.

Bergroth, Revue d'Ent., xii, p. 155, 1893.

Champion, Biol. Centr. Am., Heter., ii, p. 158, 1898.

Distant, Ann. Mag. Nat. Hist., Ser. 7, x, p. 174, 1902.

Distant, Fauna Br. Ind., Rhyn., ii, p. 193, 1903.

Bergroth, Wien. Ent. Zeit., xxv, p. 6, 1906.

Johannsen, Psyche, xvi, p. 2, 1909. (Key.)

Bergroth, Wien. Ent. Zeit., xxxiv, p. 292, 1915. [*nasutus* Stål.]

Oncyclocotis Stål, Of. Vet. Akad. Forh., xii, p. 44, 1855. (Haplotype

Stenopirates Walker, Cat. Heter., vii, p. 139, 1873. (Logotype *collaris* [Walk.]

Dicephalus Kirby, Jl. Linn. Soc. Lond., Zool., xxiv, p. 115, 1891. (Type
[*telescopicus* Kirby.]

Hymenocoris Uhler, Trans. Md. Acad. Sci., i, p. 181, 1892. (Haplotype
[*formicina* Uhl.]

Phthirocoris Enderlein, Zool. Anzeig., xxvii, pp. 785, 786, 1904. (Type
[*antarcticus* Enderl., not of Berg.]

Sphigmocephalus Enderlein, Zool. Anzeig., xxvii, p. 785, 1904. (Type
[*eureulio* Karsch.]

683. *Enicocephalus formicina* (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 182, 1892, *Hymenocoris*.

Johannsen, Psyche, xvi, p. 4, 1909.

Locality: Calif.

Genus *Systelloderus* Blanch.

Haplotype *moschatus* Blanch.

Blanchard in Gay, Hist. de Chili, vii, p. 224, 1852.

Bergroth, Wien. Ent. Zeit., xxxiv, p. 292, 1915. [*lucida* Horv.)

Henschiella Horvath, Revue d'Ent., vii, p. 169, 1888. (Haplotype *pel-*

Hymenodectes Uhler, Trans. Md. Acad. Sci., i, p. 180, 1892. (Haplotype

Johannsen, Psyche, xvi, p. 2, 1909. (Key.) [*culicis* Uhl.)

684. *Systelloderus biceps* (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 801; Compl. Writ., i,
Bergroth, Ent. News, xxiv, p. 265, 1913. [p. 356, *Reduvius*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

culicis Uhler, Trans. Md. Acad. Sci., i, p. 181, 1892, *Hymenodectes*.

Ashmead, Proc. Ent. Soc. Wash., ii, p. 329, 1892, *Enicocephalus*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Hymenodectes*.

Champion, Biol. Centr. Am., Heter., ii, p. 162, pl. 10, fig. 6, 1898.

Johannsen, Psyche, xvi, p. 3, 1909, *Henicocephalus*. [*Henicocephalus*.

[*schwarzii* Ashmead MS], Ent. News, iii, p. 191, 1892, *Enicocephalus*.

Karsch, Berl. Ent. Zeit., xxxvii, p. 486, 1892.

Localities: Pa., Va., Utah.

PHALYNN REDUVIIFORMES (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.

Reuter, Of. Finska. Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.

Oshanin, Cat. Palae. Hemip., p. 48, 1912.

Family PHYMATIDAE (Lap.)

Laporte, Essai. Classif. Syst. Hémiép., p. 14, 1832, *Phymatites*.

Spinola, Essai sur les Hémiép., p. 152, 1837 (1840), *Phymatites*.

Costa, Cimic. Neap., Cent., i, p. 19, 1838, *Phymatini*.

Spinola, Tavola Sinot., pp. 27, 44, 1850, *Phymatitac*.

Fieber, Genera Hydroc., p. 9, 1851, *Phymatodca*.

Costa, Cimic. Neap., Cent., iii, p. 67, 1852.

Fieber, Europ. Hemip., pp. 24, 33, 186, 1861.

Stål, Stet. Ent. Zeit., xxiii, p. 439, 1862, *Phymatida*.

- Stål, Enum. Hemip., v, p. 131, 1876.
 Uhler, Stand. Nat. Hist., ii, p. 284, 1884.
 Uhler, Check List, p. 23, 1886.
 Puton, Cat. Hémiép. Palae., edn. 3, p. 34, 1886, *Phymatides*.
 Provancher, Pet. Faune Ent. Can., iii, p. 161, 1887.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 127, 1897.
 Champion, Biol. Centr. Am., Heter., ii, p. 49, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 146, 1903.
 Banks, Cat. Neare. Hemip., p. 51, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 15, 1911.
 Oshanin, Kat. Palae. Hemip., p. 48, 1912.
Syrptides Rambur, Faune de Andul., ii, p. 167, 1842.
Spissipèdes Amyot and Serville, Hémiép., pp. xxxix, 228, 1843.
 Dohrn, Cat. Hemip., p. 41, 1859.
 Flor, Rhyn. Livl., i, p. 398, 1860, Fam. *Spissipeda*.
 Walker, Cat. Heter., vi, p. 169, 1873.
Macrocephalidae Kirkaldy, Entomol., xxxii, p. 221, 1899.
 Bueno, Ent. News, xviii, p. 439, 1907.
 Kirkaldy, Can. Ent., xl, p. 360, 1908.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912.

Subfamily PHYMATINAE (Am. & Serv.)

- Amyot and Serville, Hémiép., pp. xxxix, 288, 1843, *Phymatides*.
 Dohrn, Cat. Hemip., p. 41, 1859, *Phymatidae*.
 Walker, Cat. Heter., vi, p. 170, 1873, Fam. *Phymatidae*.
 Stål, Enum. Hemip., v, p. 131, 1876, *Phymatina*.
 Berg, Hemip. Argent., p. 141, 1879, *Phymatina*.
 Uhler, Check List, p. 23, 1886, *Phymatina*.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 142, 1897.
 Banks, Cat. Neare. Hemip., p. 52, 1910, *Phymatini*.

Genus *Phymata* Latr.

Haplotype *crassipes* (Fabr.)

- Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (names *crassipes* example).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 244, 1804.
 Latreille, Genera Crust. Ins., iii, p. 138, 1807.
 Latreille, Consid. Génl., p. 433, 1810 (names *crassipes* type).
 Lamarek, Hist. Nat. Anim. s. verteb., iii, p. 505, 1816 (part).
 Le Peletier and Serville, Encyc. Méth., x, p. 119, 1825.
 Leach in Brewster's Edinb. Encyc., Am. edn., viii, p. 711, 1832 (for *crassipes*).
 Laporte, Essai Classif. Syst. Hémiép., p. 14, 1832 (names *crassipes* type).
 Brullé, Hist. Nat. des Ins., ix, p. 346, 1835.
 Spinola, Essai sur les Hémiép., p. 156, 1837.
 Costa, Cimic. Neap., Cent., i, p. 19, 1838.
 Blanchard, Hist. Nat. des Ins., Hémiép., p. 114, 1840.
 Westwood, Trans. Ent. Soc. Lond., iii, p. 21, 1843.
 Amyot and Serville, Hémiép., p. 288, 1843.
 Spinola, Tavola Sinot., p. 44, 1850.
 Flor, Rhyn. Livl., i, p. 399, 1860.
 Fieber, Europ. Hemip., pp. 33, 109, 1861.

Walker, Cat. Heter., vi, p. 170, 1873.

Stål, Enum. Hemip., v, p. 131, 1876.

Provancher, Pet. Faune Ent. Can., iii, p. 162, 1887.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, pp. 143, 144, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 49, 1898.

Syrtis Fabricius, Syst. Rhyn., p. 121, 1803. (Orthotype *erosa* Linn.)

Latreille in Cuvier, Règne Anim., edn. 2, v, p. 200, 1829.

Hahn, Wanz. Ins., iii, p. 55, 1835.

Herrieh-Schaeffer, Nomen. Ent., i, pp. 37, 57, 1835.

Burmeister, Handb. d. Ent., ii, p. 251, 1835.

Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 165, 1836.

Westwood, Intr. Mod. Classif. Ins., ii, p. 477, 1840.

Rambur, Faune d. Andul., ii, p. 167, 1842.

Gorski, Anal. Ent., i, p. 28, 1852. [type].

Discomerus Laporte, Essai Classif. Syst. Hémipt., p. 14, 1832 (names *erosa*

Anthylla Stål, Enum. Hemip., v, pp. 131, 134, 1876 (*inverso-punctata* logo-
[type].

685. *Phymata vicina* Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 150, pl. 8, fig. 27; pl. 9, figs.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909. [6, 7, 1897.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Localities: R. I., Fla.

686. *Phymata albopicta* Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 151, pl. 4, fig. 2; pl. 8, fig.

[37; pl. 9, fig. 3, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 54, pl. 4, fig. 9, 1898.

Localities: Ga. (Neotropical.)

687. *Phymata annulipes* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 439, 1862.

Stål, Enum. Hemip., v, p. 132, 1876.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, p. 151, pl. 8, fig. 1; pl. 9, fig. 8,

Champion, Biol. Centr. Am., Heter., ii, p. 53, 1898. [1897.

Banks, Cat. Neare. Hemip., p. 52, 1910.

Localities: Calif. (Mexico.)

688. *Phymata noualhieri* Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 153, pl. 4, fig. 3; pl. 8, fig. 4;

[pl. 9, fig. 9, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 54, pl. 4, fig. 8, 1898.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

Localities: Pa., Ga., Fla. (Mexico.)

689. *Phymata erosa* (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 443, 1758; edn. 12, i, pt. 2, p. 718, 1767,

Sulzer, Kennz. d. Ins., p. 102, pl. 11, fig. 71, 1761, *Cimer*. [Cimer.

Muller, Linne's Natursyst., v, pt. 1, p. 483, 1774, *Cimer*.

Goeze, Ent. Beytr., ii, p. 189, 1778, *Cimer*.

Fabricius, Spec. Ins., ii, p. 337, 1781, *Acanthia*.

Fabricius, Mantissa Ins., ii, p. 279, 1787, *Acanthia*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2126, 1788, *Cimer*.

Fabricius, Ent. Syst., iv, p. 74, 1794, *Acanthia*.

Fabricius, Syst. Rhyn., p. 121, 1803, *Syrtis*.

- Latreille, Hist. Nat. Crust. Ins., xii, p. 245, 1804.
 Latreille, Genera Crust. Ins., iii, p. 139, 1807.
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 507, 1816.
 Le Peletier and Serville, Eneye. Méth., x, p. 119, 1825 (1827?).
 Laporte, Essai Classif. Syst. Hémip., p. 14, pl. 51, fig. 4, 1832, *Discomerus*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 478, 1840 (note).
 Westwood, Trans. Ent. Soc. Lond., iii, p. 21, pl. 2, fig. 3, 1843.
 Amyot and Serville, Hémip., p. 290, 1843.
 Herrich-Schaeffer, Wanz. Ins., vii, p. 15, fig. 694, 1844, *Syrtis*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.
 Walker, Cat. Heter., vi, p. 170, 1873.
 Stål, Enum. Hemip., v, p. 133, Nos. 8, 9, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876; iii, p. 428, 1877; iv, p. 507, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878. [1878.
 Cook, Can. Ent., xi, p. 18, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 284, 1884.
 Lintner, 3d Rept. N. Y. St. Ent., p. 107, 1885.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 159, 1897.
 Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.
 scorpio (De Geer), Mémoires, iii, p. 350, pl. 35, fig. 13, 1773, *Cimer*.
 Retzius, Genera et Spec. Ins., p. 89, 1783, *Cimer*.
 carinata (Fabricius), Syst. Rhyn., p. 122, 1803, *Syrtis*.
a. subsp. fasciata (Gray)
 Gray in Griffith's Anim. Kingd., xv, p. 242, pl. 93, fig. 2, 1832, *Syrtis*.
 Bergroth, Revue d'Ent., xi, p. 264, 1892.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894 (part).
 Gillette and Baker, Hemip. Colo., p. 58, 1895.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 161, pl. 5, fig. 8, etc., 1897.
 Champion, Biol. Centr. Am., Heter., ii, p. 50, pl. 4, figs. 1, 2, 1898.
 Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906 (under *erosa*).
 Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
 Heidemann, Proc. Ent. Soc. Wash., xiii, p. 136, pl. 10, fig. 5, 1911 (egg).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 †*erosa* Guerin, Icon. Reg. Anim., pl. 56, fig. 12, 1843.
 Localities: N. J., Md., Va., N. C., S. C., Ga., Fla., Miss., La., Ind.,
 Wis., Minn., Ia., Kan., Mo., Colo., Utah, Texas, N. Mex., Ariz.,
 Nev., Calif. (Neotropical).
b. subsp. wolffii Stål
 Stål, Enum. Hemip., v, p. 133, 1876.
 Provancher, Pet. Faune Ent. Can., iii, p. 162, 1887.
 †*erosa* (Wolff), Icon. Cimic., iii, p. 89, fig. 83, 1802, *Acanthia*.
 †*fasciata* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894 (part).
 pennsylvanica Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 163, pl. 8,
 [fig. 10, pl. 9, figs. 19, 20, 1897.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., D. C. (?), Fla.,
 Ohio, Ind., Ill., Mo.
c. subsp. arctostaphylae Van D.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
 Locality: Calif.

d. subsp. **guerini** Leth. & Sevr.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 28, 1896 (n.n. for *erosa* Guer.).

Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 164, pl. 8, figs. 12, 28, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

†*erosa* Guerin in Sagra, Hist. de Cuba, Ins., p. 406, 1857 (excl. vars.).

Stål, Enum. Hemip., v, p. 133, No. 12, 1876.

†*acutangula* Stål, Enum. Hemip., v, p. 133, 1876.

Localities: Fla. (West Indies.)

subsp. **carneipes** Mayr.

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 442, 1865.

[Handlirsch thinks this species erroneously credited to "Ga." by Mayr.]

c. subsp. **severini** Handl.

Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 164, pl. 8, figs. 13, 31, 1897.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.

Localities: Calif. (Mexico, Centr. Am.)

f. subsp. **parva** Handl.

Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 165, 1897.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.

Localities: Calif. (Neotropical.)

g. subsp. **salicis** Ckl.

Cockerell, Entomol., xxxiii, p. 66, 1900.

Localities: Ariz., Utah.

690. **Phymata acutangula** (Guer.)

Guerin in Sagra, Hist. de Cuba, Ins., p. 408, 1857, *Syrtis*.

Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 175, pl. 4, fig. 6, etc., 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 53, pl. 4, fig. 7, 1898.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.

?*longiceps* Stål, Rio Jan. Hemip., i, p. 59, 1860.

Stål, Enum. Hemip., v, p. 133, 1876.

?*simulans* Stål, Rio Jan. Hemip., i, p. 59, 1860.

Stål, Enum. Hemip., v, p. 133, 1876.

?*acuta* Stål, Rio Jan. Hemip., i, p. 60, 1860.

Stål, Enum. Hemip., v, p. 133, 1876.

Localities: Texas. (Neotropical.)

Subfamily **MACROCEPHALINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xxxix, 291, 1843, Groupe *Macrocephalides*.

Dohrn, Cat. Hemip., p. 41, 1859, *Macrocephalidae*.

Walker, Cat. Heter., vi, pp. 169, 172, 1873, Fam. *Macrocephalidae*.

Stål, Enum. Hemip., v, p. 131, 1876, Subfam. *Macrocephalina*.

Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 143, 1897, *Macrocephalinae*.

Genus **Macrocephalus** Swed.

Haplotype *cimicoides* Swed.

Swederus, Vet. Akad. Nya Handl., viii, p. 183, 1787.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2201, 1788.

Meyer in Thunberg, Charac. Genera Ins., edn. 2, p. 34, 1791.

Latreille, Genera Crust. Ins., iii, p. 137, 1807.

- Latreille, Consid. Génl., p. 433, 1810 (names *manicata* pseudotype).
 Le Peletier and Serville, Encyc. Méth., x, p. 120, 1825.
 Latreille in Cuvier, Règne Anim., edn. 2, v, p. 200, note, 1829.
 Leach in Brewster, Edinbg. Encyc., Am. edn., viii, p. 711, 1832 (for *cimicoides*).
 Laporte, Essai, Classif. Syst. Ins., p. 15, 1832.
 Burmeister, Handb. d. Ent., ii, p. 252, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 347, 1835.
 Spinola, Essai sur les Hémipt., p. 157, 1837 (1840).
 Blanchard, Hist. des Ins., Hémipt., p. 114, 1840 (names *cimicoides* type).
 Westwood, Trans. Ent. Soc. Lond., iii, p. 22, 1843 (part).
 Amyot and Serville, Hémipt., p. 292, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 106, 1848.
 Spinola, Tavola Sinot., p. 44, 1850 (excl. synonym.).
 Fieber, Europ. Hemip., p. 34, 1860.
 Walker, Cat. Heter., vi, pp. 172, 173, 1873.
 Stål, Enum. Hemip., v, pp. 132, 134, 1876.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, pp. 143, 181, 1897 (monograph).
 Champion, Biol. Centr. Am., Heter., ii, p. 55, 1898.
Macrothyreus Westwood, Trans. Ent. Soc. Lond., iii, p. 30, 1843 (as subgen. orthotype *cimicoides*).

691. *Macrocephalus cimicoides* Swed.

- Swederus, Vet. Akad. Nya Handl., viii, p. 185, 1787.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2201, 1788.
 Latreille, Genera Crust. Ins., iii, p. 138, 1807.
 Brullé, Hist. Nat. des Ins., ix, p. 348, 1835.
 Blanchard, Hist. Nat. des Ins., Hémipt., p. 114, 1840.
 Westwood, Trans. Ent. Soc. Lond., iii, p. 23, pl. 2, fig. 5, 1843.
 Walker, Cat. Heter., vi, p. 173, 1873.
 Stål, Hemip. Fabr., i, p. 94, 1868.
 Stål, Enum. Hemip., v, p. 135, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 186, pl. 9, fig. 26, 1897.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 12, 1914.
macrocephalus Lamarek, Hist. Anim. s. Vert., iii, p. 307, 1816, *Phymata*.
 †*manicatus* Burmeister, Handb. d. Ent., ii, p. 252, 1835.
 Localities: "Canada," "Carolina," Ga., Fla., Texas, Calif.

692. *Macrocephalus manicatus* (Fabr.)

- Fabricius, Syst. Rhyng., p. 123, 1803, *Syrts*.
 Wolff, Icon. Cimic., v, p. 169, fig. 163, 1811, *Syrts*.
 Le Peletier and Serville, Encyc. Méthod., x, p. 120, 1825.
 Laporte, Essai Classif. Syst. Hémipt., p. 15, 1832.
 Spinola, Essai sur les Hémipt., p. 157, 1837 (1840).
 Herrich-Schaeffer, Wanz. Ins., viii, p. 107, fig. 878, 1848.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 187, pl. 9, fig. 25, 1897.
 Localities: "Carolina," Texas.

693. *Macrocephalus notatus* Westw.

- Westwood, Trans. Ent. Soc. Lond., iii, p. 24, 1843 (excl. vars.).
 Stål, Enum. Hemip., v, p. 135, 1876.

- Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 188, pl. 9, figs. 27, 28, 1897.
 Champion, Biol. Centr. Am., Heter., ii, p. 56, pl. 4, fig. 10, 1898.
 Barber, Brookl. Inst., Sci. Bul., i, p. 282, 1906.
incisus Stål, Stet. Ent. Zeit., xxiii, p. 440, 1862.
 Stål, Enum. Hemip., v, p. 135, 1876.
clivus Stål, Stet. Ent. Zeit., xxiii, p. 440, 1862.
 Localities: Texas. (Neotropical.)

694. **Macrocephalus gracilis** Handl.

- Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 193, 1897.
 Locality: "N. Am."

695. **Macrocephalus prehensilis** (Fabr.)

- Fabricius, Syst. Rhyng., p. 123, 1803, *Syrtis*.
 Wolff, Icon. Cimic., v, p. 170, fig. 164, 1811, *Syrtis*.
 Le Peletier and Serville, Encyc. Méth., x, p. 120, 1825.
 Westwood, Trans. Ent. Soc. Lond., iii, p. 26, 1843.
 Amyot and Serville, Hémip., p. 293, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 108, fig. 879, 1848.
 Stål, Hemip. Fabr., i, p. 94, 1868.
 Stål, Enum. Hemip., v, p. 135, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876.
 Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 194, 1897.
 Champion, Biol. Centr. Am., Heter., ii, p. 63, 1898.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
pallidus Westwood, Trans. Ent. Soc. Lond., iii, p. 27, 1843.
 Localities: "Carolina," Ga., Fla., Ky., Tenn., Kan., N. Mex., Texas.

696. **Macrocephalus uhleri** Handl.

- Handlirsch, Verh. Zool.-Bot. Ges. Wien, xlviii, p. 383, 1898.
 Banks, Cat. Nearc. Hemip., p. 52, 1910.
arizonicus Cockerell, Entomol., xxxiii, p. 66, 1900.
 Locality: Ariz.

Family REDUVIIDAE (Latr.)

- Latreille, Genera Crust. Ins., iii, p. 126, 1807, *Reduvini*.
 Stephens, Cat. Brit. Ins., ii, p. 350, 1829, *Reduviidae*.
 Laporte, Essai Classif. Syst. Hémip., p. 5, 1832, *Reduvites*.
 Burmeister, Handb. d. Ent., ii, p. 218, 1835, *Reduvini*.
 Brullé, Hist. Nat. des Ins., ix, p. 305, 1835, *Reduviens*.
 Spinola, Essai sur les Hémip., p. 69, 1837 (1840), *Reduvites*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 99, 1840, *Reduviens*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 471, Synop., p. 120, 1840, *Reduviidae*.
 Spinola, Tavola Sinot., pp. 27, 44, 1850, *Reduvitac*.
 Fieber, Genera Hydroc., p. 9, 1851, *Reduidea*.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 85, 1853, *Reduvini*.
 Flor, Rhyn. Livl., i, pp. 66, 675, 1860, *Reduvina*.
 Fieber, Europ. Hemip., pp. 25, 40, 149, 1861, *Reduviidae*.

- Stål, Hemip. Afr., iii, p. 43, 1865, *Reduviida*.
 Stål, Enum. Hemip., ii, p. 66, 1872, *Reduviina*.
 Stål, Enum. Hemip., iv, p. 3, 1874, *Reduviidae*.
 Uhler, Check List, p. 23, 1886, *Reduvidae*.
 Puton, Cat. Hemip. Palae., p. 37, 1886, *Reduvidae*.
 Lethierry and Severin, Cat. Génl. Hémi., iii, p. 69, 1896, *Reduvidae*. (Like [those preceding this includes the *Nabidae*].)
 Champion, Biol. Centr. Am., Heter., ii, p. 162, 1898, *Reduviidae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 196, 1903, *Reduviidae*.
 Oshanin, Verz. Palae. Hemip., i, p. 505, 1908, *Reduviidae*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910, *Reduviidae*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 16, 1911, *Reduviidae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912, *Reduviidae*.
 Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Reduviidae*. [Reduviidae].
Nudicolles Latreille, Fam. Nat. Règne Anim., p. 423, 1825.
Nudirostri Amyot and Serville, Hémi., pp. xli, 314, 1843.
 Dohrn, Cat. Hemip., p. 44, 1859.
 Walker, Cat. Heter., vii, p. 45, 1873, *Nudirostra*.

Subfamily EMESINAE (Am. & Serv.)

- Amyot and Serville, Hémi., pp. xlviii, 393, 1843, *Longicori* Groupe *Emesides*.
 Spinola, Tavola Sinot., p. 45, 1850, *Emesoideae*.
 Dohrn, Cat. Hemip., p. 52, 1859, *Emesina*.
 Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Emesida*.
 Dohrn, Linnaea Ent., xiv, p. 206, 1860, *Emesina*.
 Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Emesida*.
 Dohrn, Linnaea Ent., xv, p. 42, 1863, *Emesina*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 44, 1872, *Emesina*.
 Stål, Enum. Hemip., ii, pp. 67, 125, 1872, *Emesina*.
 Walker, Cat. Heter., vii, pp. 51, 53, 86, 1873; viii, p. 144, 1873, *Emesidae*.
 Stål, Enum. Hemip., iv, pp. 67, 92, 1874, *Emesina*.
 Uhler, Stand. Nat. Hist., ii, p. 276, 1884, *Emesidae*.
 Uhler, Check List, p. 26, 1886, *Emesidae*.
 Puton, Cat. Hémi. Palae., p. 37, 1886, Tribe *Emesini*.
 Lethierry and Severin, Cat. Génl. Hémi., iii, p. 69, 1896, *Emesidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 162, 1898, *Emesinae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 200, 1903, *Emesinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 505, 1908, *Emesina*.
 Banks, Psyche, xvi, p. 43, 1909, *Emesidae*.
 Banks, Cat. Neare. Hemip., p. 20, 1910, *Emesidae*.
 Baker, Pomona J. Ent., ii, p. 225, 1910.
 Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Emesinae*.
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 Stål, Hemip. Afr., iii, p. 45, 1865.

- Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 44, 1872, *Plocariina*.
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 Uhler, Check List, p. 26, 1886, *Plocarina*.
Stenolemaria Kirkaldy, Fauna Hawaii., iii, p. 125, 1902 (Division).
 Distant, Fauna Br. Ind., Rhyn., ii, p. 201, 1903 (Division).
 Oshanin, Verz. Palae. Hemip., i, p. 505, 1908 (Division).
 Oshanin, Kat. Palae. Hemip., p. 48, 1912 (Tribe).

Genus *Ploiariola* Reut.

Logotype vagabunda Linn.

- Reuter, Rev. Synon., p. 357, No. 330, 1888 (n.n. for †*Ploiaria* Latr.).
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 69, 1896.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 201, 1903.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 20, 1912.
 Oshanin, Kat. Palae. Hemip., p. 48, 1912.
 †*Gerris* Schellenberg, Land u. Wasserwanzen, p. 24, 1800.
 Burmeister, Handb. d. Ent., ii, p. 223, 1835.
 Flor, Rhyn. Livl., i, p. 686, 1860.
 †*Ploiaria* Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.
 Latreille, Genera Crust. Ins., iii, p. 130, 1807.
 Latreille, Consid. Génl., p. 433, 1810 (names *vagabundus* Fabr. type).
 Leach in Brewster's Edinbg. Encey., ix, p. , 1815. [species].
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 500, 1816 (*vagabunda* only).
 Laporte, Essai Classif. Syst. Hémip., p. 13, 1832 (names *vagabundus*).
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 Brullé, Hist. Nat. des Ins., ix, p. 310, 1835.
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 Blanchard, Hist. Nat. des Ins., Hémip., p. 100, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
 Amyot and Serville, Hémip., p. 396, 1843.
 Dohrn, Linnaea Ent., xiv, p. 214, 1860.
 Fieber, Europ. Hemip., pp. 41, 149, 1861, *Plocaria*.
 Dohrn, Linnaea Ent., xv, p. 55, 1863.
 Douglas and Scott, Brit. Hemip., p. 534, 1865.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 65, 1872, *Plocaria*.
 Stål, Enum. Hemip., iv, p. 94, 1874.
 Bergroth, Verh. Zool.-Bot. Ges. Wien, lvi, p. 305, 1906.
 †*Emesa* Provancher, Pet. Faune Ent. Can., iii, 185, 1888.
 †*Ploiariodes* Champion, Biol. Centr. Am., Heter., ii, pp. 163, 165, 1898.
 Oshanin, Verz. Palae. Hemip., i, p. 505, 1908.
 Banks, Psyche, xvi, p. 45, 1909.

697. *Ploiariola errabunda* (Say)

- Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 803; Compl. Writ., i, p.
 Dohrn, Linnaea Ent., xv, p. 62, 1863 (copies Say's desc.). [359, *Ploiaria*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871, *Plocaria*.
 Stål, Enum. Hemip., ii, p. 128, 1872 (genus?).
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Plocaria*.
 Uhler, Stand. Nat. Hist., ii, p. 277, 1884, *Ploiaria*.

- Uhler, Check List, p. 26, 1886, *Cerascopus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 24, 1907; ix, p. 176, 1909,
 Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes*. [Ploiariodes.
 Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
 Van Duzee, Can. Ent., xlv, p. 324, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
maculata Haldemann, Proc. Acad. Nat. Sci., Phila., iii, p. 151, 1847,
 [Ploiaria.
 †*longipes* Provancher, Pet. Faune Ent. Can., iii, p. 186, 1888, *Emesa*.
 Localities: Quebec, N. H., Pa., Md., Va.

698. *Ploiariola tuberculata* Banks

- Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes*.
 Parshley, Psyche, xxi, p. 144, 1914, *Ploiariodes*.
 Localities: Me., N. Y., Va.

699. *Ploiariola californica* Banks.

- Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes*.
 Baker, Pomona Jl. Ent., ii, p. 227, 1910, *Ploiariodes*.
 Locality: Calif.

700. *Ploiariola hirtipes* Banks

- Banks, Psyche, xix, p. 97, 1912, *Ploiariodes*.
 Locality: Vt.

Genus *Stenolemus* Sign.

Haplotype *spinicollis* Sign.

- Signoret, Ann. Soc. Ent. Fr., Ser. 3, vi, p. 251, 1858.
 Dohrn, Linnaea Ent., xiv, p. 250, 1860.
 Stål, Enum. Hemip., ii, p. 125, 1872; iv, pp. 92, 94, 1874.
 Champion, Biol. Centr. Am., Heter., ii, pp. 163, 164, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 203, 1903.
 Bergroth, Psyche, xviii, p. 17, 1911.
 Bergroth, Ann. Am. Mus. Nat. Hist., xxxi, p. 348, 1912.
Phantasmatophanes Kirkaldy, Proc. Linn. Soc. N. S. Wales, xxxiii, p. 369,
 [1908 (orthotype *muiri* Kirk.).

701. *Stenolemus spiniventris* Sign.

- Signoret, Ann. Soc. Ent. Fr., Ser. 3, vi, p. 253, pl. 6, figs. 1-3, 1858.
 Dohrn, Linnaea Ent., xiv, p. 250, 1860.
 Stål, Enum. Hemip., ii, p. 125, 1872.
 Uhler, Stand. Nat. Hist., ii, p. 277, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 164, 1898.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Localities: Ariz., Fla. (Mexico.)

TRIBE *LEISTARCHINI* (Stål)

- Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Leistarchida*.
 Stål, Enum. Hemip., iv, p. 92, 1874, Div. *Leistarcharia*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 207, 1903, Div. *Leistarcharia*.
 Oshanin, Verz. Palae. Hemip., i, p. 509, 1908, Div. *Leistarcharia*.
 Oshanin, Kat. Palae. Hemip., p. 49, 1912, Div. *Leistarcharia*.

Genus **Ploiaria** Scop.Haplotype *domestica* Scop.

Scopoli Del. Flora Fauna Insubr., i, p. 60, 1786.

Reuter, Rev. Synon., p. 359, No. 332, 1888.

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Champion, Biol. Centr. Am., Heter., ii, p. 174, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 209, 1903.

Banks, Psyche, xvi, p. 44, 1909.

Cerascopus Heineken, Zool. Jl., v, p. 36, 1830.

Stål, Hemip. Afr., iii, p. 163, 1865.

Stål, Enum. Hemip., ii, pp. 126, 127, 1872; iv, pp. 93, 95, 1874.

Emesodema Spinola, Essai sur les Hémipt., p. 87, 1837 (1840).

Spinola, Tavola Sinot., p. 45, 1850.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 115, 1853.

Dohrn, Linnaea Ent., xiv, pp. 213, 246, 1860.

702. **Ploiaria simplicipes** Uhl.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 430, 1878, *Emesodema*.Uhler, Check List, p. 26, 1886, *Barce*.Bueno, Jl. N. E. Ent. Soc., xvi, p. 234, 1908, *Barce*.Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910, *Barce*.

Localities: Mass., N. Y.

703. **Ploiaria texana** Banks

Banks, Psyche, xvi, p. 44, 1909.

Locality: Texas.

704. **Ploiaria arizonensis** (Banks)Banks, Psyche, xvi, p. 45, 1909, *Luteva*.

Locality: Calif.

705. **Ploiaria californiensis** Bak.

Baker, Pomona Jl. Ent., ii, p. 226, 1910.

Locality: Calif.

Genus **Ploiariopsis** Champ.Logotype *megalops* Champ.

Champion, Biol. Centr. Am., Heter., ii, pp. 163, 173, 1898.

Banks, Psyche, xvi, pp. 43, 44, 1909.

706. **Ploiariopsis hirticornis** Banks

Banks, Psyche, xvi, p. 44, 1909.

Locality: N. C.

707. **Ploiariopsis reticulata** Bak.

Baker, Pomona Jl. Ent., ii, p. 225, 1910.

Locality: Calif.

Genus **Luteva** DohrnLogotype *concolor* Dohrn

Dohrn, Linnaea Ent., xiv, pp. 213, 242, 1860.

Stål, Enum. Hemip., ii, pp. 126, 127, 1872; iv, pp. 93, 95, 1874.

Champion, Biol. Centr. Am., Heter., ii, p. 163, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 208, 1903.

Banks, Psyche, xvi, pp. 43, 45, 1909.

708. *Luteva carolina* H. S.

Herrich-Schaeffer, Wanz. Ins., ix, p. 115, fig. 936, 1853, *Emesodema*.

Dohrn, Linnaea Ent., xiv, p. 250, 1860, *Emesodema*.

Stål, Enum. Hemip., ii, p. 127, 1872.

Bergroth, Psyche, xviii, p. 19, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Ploiaria*.

Locality: "Carolina," Fla.

TRIBE EMESINI (Dohrn)

Dohrn, Linnaea Ent., xiv, p. 253, 1860, *Emesida*.

Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Emesida*.

Dohrn, Linnaea Ent., xv, p. 43, 1863, *Emesidae*.

Stål, Hemip. Afr., iii, pp. 45, 162, 1865.

Stål, Enum. Hemip., iv, p. 93, 1874.

Distant, Fauna Br. Ind., Rhyn., ii, p. 210, 1903.

Genus *Emesa* Fabr.Orthotype *preecatoria* Fabr.

Fabricius, Syst. Rhyn., p. 263, 1803.

[type].

Laporte, Essai Classif. Syst. Hémip., p. 84, 1832 (names *mantis* Fabr. pseudo-

Burmeister, Handb. d. Ent., ii, p. 223, 1835.

Spinola, Essai sur les Hémip., p. 90, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 99, 1840.

Amyot and Serville, Hémip., p. 393, 1843.

Spinola, Tavola Sinot., p. 45, 1850.

Herrich-Schaeffer, Wanz. Ins., ix, p. 113, 1853.

Dohrn, Linnaea Ent., xiv, p. 215, 1860.

Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862.

Stål, Hemip. Afr., iii, p. 162, 1865.

Stål, Of. Vet. Akad. Forh., xxvii, p. 704, 1870.

Stål, Enum. Hemip., ii, pp. 125, 126, 1872.

Walker, Cat. Heter., vii, pp. 51, 86, 1873; viii, pp. 144, 145, 1873.

Champion, Biol. Centr. Am., Heter., ii, pp. 163, 168, 1898.

†*Ploiaria* Say, Am. Entomol., iii, pl. 47, 1828; Compl. Writ., i, p. 105.

709. *Emesa brevipennis* (Say)

Say, Am. Entomol., iii, pl. 47, 1828; Compl. Writ., i, p. 106, *Ploiaria*.

Dohrn, Linnaea Ent., xiv, p. 220, 1860.

Walker, Cat. Heter., viii, p. 145, 1873.

‡*longipes* De Geer, Mémoires, iii, p. 352, pl. 35, figs. 16, 17, 1773, *Cimex*.

Goeze, Ent. Beytr., ii, p. 273, No. 10, 1778, *Cimex*.

Retzius, Genera Spec. Ins., p. 89, 1783, *Cimex*.

Burmeister, Handb. d. Ent., ii, p. 223, 1835.

Dohrn, Linnaea Ent., xiv, p. 221, 1860.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871.

Stål, Enum. Hemip., ii, p. 126, 1872.

Walker, Cat. Heter., viii, p. 146, 1873 (part).

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.

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Uhler, Stand. Nat. Hist., ii, p. 276, 1884.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 287, 1894.

Champion, Biol. Centr. Am., Heter., ii, p. 168, pl. 10, figs. 13, 14, 1898.

- Barber, Brookl. Inst. Sci. Bul., vi, p. 283, 1906.
 Bueno, Jl. N. Y. Ent. Soc., p. 234, 1908.
 Wickham, Ottawa Nat., xxii, p. 255, 1909.
 Banks, Psyche, xvi, p. 48, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
 Wickham, Ent. News, xxi, p. 27, 1910 (habits).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
†fitum Gray in Griffiths' Anim. Kingd., xv, p. 244, pl. 97, fig. 3, 1832.
pia Amyot and Serville, Hemip., p. 394, 1843.
 Herrieh-Schaeffer, Wanz. Ins., ix, p. 114, 1853.
 Dohrn, Linnaea Ent., xiv, p. 231, 1860.
affinis Dohrn, Linnaea Ent., xiv, p. 222, 1860. [Dohrn).
choctawana Kirkaldy, Can. Ent., xli, p. 388, 1909 (n.n. for *brevipennis*).
 Localities: Mass., Conn., N. Y., N. J., Pa., Md., N. C., Fla., Ind.,
 Ill., Ia., Texas.

710. **Emesa brevicoxa** Banks

- Banks, Psyche, xvi, p. 48, 1909.
 Locality: Calif.

Genus **Ghilianella** Spin.

Haplotype *filiventris* Spin.

- Spinola, Generi Ins. Arthr., p. 142, 1852.
 Dohrn, Linnaea Ent., xiv, p. 236, 1860.
 Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862; xxvii, p. 704, 1870.
 Stål, Hemip. Afr., iii, p. 162, 1865.
 Stål, Enum. Hemip., ii, p. 126, 1872.
 Walker, Cat. Heter., vii, p. 86, 1873; viii, pp. 144, 147, 1873.
 Champion, Biol. Centr. Am., Heter., ii, pp. 163, 169, 1898.

711. **Ghilianella productilis** Barb.

- Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Locality: Fla.

Genus **Gardena** Dohrn

Haplotype *melinarthrum* Dohrn

- Dohrn, Linnaea Ent., xiv, p. 214, 1860.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 704, 1870.
 Stål, Enum. Hemip., iv, p. 93, 1874.
 Champion, Biol. Centr. Am., Heter., ii, p. 167, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 214, 1903.

712. **Gardena americana** Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 167, pl. 10, fig. 12, 1898.
 Banks, Cat. Neare. Hemip., p. 21, 1910.
 Localities: Texas(?) (Banks). (Neotropical.)

Genus **Barce** Stål

Haplotype *annulipes* Stål

- Stål, Hemip. Afr., iii, p. 163, 1865 (invalid here).
 Stål, Berl. Ent. Zeit., x, p. 168, 1867 (valid here).
 Stål, Enum. Hemip., ii, pp. 125, 127, 1872.
 Banks, Psyche, pp. 43, 46, 1909.

713. *Barce annulipes* Stål

Stål, Berl. Ent. Zeit., x, p. 168, 1867.

Stål, Enum. Hemip., ii, p. 127, 1872.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908.

Banks, Psyche, xvi, p. 47, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.

†*terrabundus* Provaneher, Pet. Faune Ent. Can., iii, p. 186, 1888, *Cerascopus*.

Barce sp., Van Duzee, Can. Ent., xlv, p. 324, 1912.

Localities: Quebec, Ont., N. Y., N. J., Va., La., Wis.

714. *Barce uhleri* Banks

Banks, Psyche, xvi, p. 47, 1909.

a. var. *brunnea* Banks

Banks, Psyche, xvi, p. 47, 1909 (as var. of *uhleri*).

Localities: N. Y., N. J., Va., N. C.

715. *Barce fraterna* (Say)

Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p.

Banks, Psyche, xvi, p. 47, 1909. [358, *Ploiaria*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.

Localities: Mass., N. Y., Md., Va., N. C., Kan., La.

716. *Barce banski* Bak.

Baker, Pomona Jl. Ent., ii, p. 227, 1910.

Locality: Calif.

Subfamily SAICINAE (Stål)

Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Saicida*.

Dohrn, Linnaea Ent., xiv, pp. 253, 254, 1860, *Saicidae*.

Stål, Hemip. Afr., iii, pp. 44, 161, 1865, *Saicida*.

Stål, Hemip. Fabr., i, p. 129, 1868, *Saicida*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 44, 47, 1872, *Saicina*.

Stål, Enum. Hemip., ii, pp. 44, 124, 1872; iv, pp. 4, 90, 1874, *Saicina*.

Uhler, Check List, p. 26, 1886, *Saicina*.

Puton, Cat. Hemip. Palae., edn. 3, p. 37, 1886, Div. *Saicaria*.

Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 78, 1896, *Saicidae*.

Champion, Biol. Centr. Am., Heter., ii, p. 176, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 217, 1903.

Oshanin, Verz. Palae. Hemip., i, p. 512, 1908, *Saicina*.

Oshanin, Kat. Palae. Hemip., p. 49, 1912, *Saicinae*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 219, 1913, *Saicinae*.

Genus *Oncerotrachelus* Stål

Orthotype *acuminatus* Say

Stål, Hemip. Fabr., i, p. 130, 1868.

Stål, Enum. Hemip., ii, p. 124, 1872; iv, p. 91, 1874.

Champion, Biol. Centr. Am., Heter., ii, p. 180, 1898.

Fracker, Proc. Ia. Acad. Sci., xix, p. 226, 1913.

717. *Oncerotrachelus acuminatus* (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 800; Compl. Writ., i,

Stål, Hemip. Fabr., i, p. 130, 1868.

[p. 356, *Reduvius*.

- Stål, Enum. Hemip., ii, p. 124, 1872.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 279, 1884.
 Barber, Brookl. Inst. Sci. Bul., i, p. 283, 1906.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 226, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

Localities: Mass., N. Y., N. J., Pa., Md., D. C., N. C., S. C., Fla.,
 Ind., Minn., Texas.

Genus **Saica** Am. & Serv.

Haplotype *rubella* Am. & Serv.

- Amyot and Serville, Hémip., p. 371, 1843.
 Stål, Hemip. Afr., iii, p. 161, 1865.
 Stål, Hemip. Fabr., i, p. 129, 1868.
 Walker, Cat. Heter., viii, p. 127, 1873.
 Stål, Enum. Hemip., ii, p. 124, 1873; iv, p. 91, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 176, 1898.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.

718. **Saica fusco-vittata** Barb.

- Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.
 Locality: Fla.

Subfamily STENOPODINAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xlviii, 386, 1843, *Stenopodides*.
 Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Stenopodida*.
 Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859, *Stenopodida*.
 Dohrn, Cat. Hemip., p. 47, 1859, *Stenopodidae*.
 Stål, Hemip. Afr., iii, pp. 44, 148, 1865, *Stenopodida*.
 Stål, Hemip. Fabr., i, p. 126, 1868, *Stenopodida*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 144, 1868, *Stenopodida*.
 Stål, Enum. Hemip., ii, p. 120, 1872, *Stenopodina*.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 64, 1872, *Stenopodina*.
 Stål, Enum. Hemip., iv, pp. 4, 83, 1874, *Stenopodina*.
 Uhler, Stand. Nat. Hist., ii, p. 278, 1884, *Stenopodina*.
 Uhler, Check List, p. 25, 1886, *Stenopodina*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 81, 1896, *Stenopodidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 181, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 222, 1903.
 Oshanin, Verz. Palae Hemip., i, p. 513, 1908, *Stenopodina*.
 Oshanin, Kat. Palae. Hemip., p. 49, 1912.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 226, 1913.

Genus **Pnirontis** Stål

Logotype *scutellaris* Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 381, 1859.
 Stål, Hemip. Afr., iii, p. 149, 1865.
 Stål, Hemip. Fabr., i, p. 126, 1868.
 Stål, Enum. Hemip., ii, p. 120, 1872.
 Walker, Cat. Heter., viii, p. 34, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 181, 1898.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 226, 1913.

Subgenus **Centromelus** Fieb.Haplotype *spinosissimus* Kol.

- Fieber, Europ. Hemip., pp. 42, 151, 1861 (as genus).
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 147, 1868 (as genus).
 Berg, Hemip. Argent., p. 173, 1879 (as genus).
 Stål, Hemip. Fabr., i, p. 128, 1868.
 Oshanin, Verz. Palae. Hemip., i, p. 515, 1908.

719. **Pnirontis languida** Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 381, 1859.
 Stål, Hemip. Fabr., i, p. 129, 1868.
 Stål, Enum. Hemip., ii, p. 120, 1872.
 Walker, Cat. Heter., viii, p. 34, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Centromelus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 16, fig. 13, 1898.
 Barber, Brookl. Inst., Sci. Bul., i, p. 283, 1906.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 Localities: Ga., S. C., Fla., Texas.

720. **Pnirontis infirma** Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 382, 1859.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 147, 1868, *Centromelus*.
 Stål, Hemip. Fabr., i, p. 129, 1868.
 Stål, Enum. Hemip., ii, p. 120, 1872.
 Walker, Cat. Heter., viii, p. 34, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 11, figs. 11, 12, 1898.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.
 Barber, Brookl. Inst., Sci. Bul., i, p. 283, 1906.
 Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.
?spinosissima Kolenati, Melet, Ent., Fasc. iv, p. 51, 1857, *Pygolampis*.
 Fieber, Europ. Hemip., p. 151, 1861, *Centromelas*.
 Localities: N. J., "Carolina," Ga., Fla., Texas. (Europe by error.)

721. **Pnirontis modesta** Banks

- Banks, Ent. News, xxi, p. 324, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 Localities: Va., Fla., Ind.

Genus **Pygolampis** Germ.Type *denticulatus* Germ. = *bidentata* (Goeze)

- Germar, Fauna Europ., viii, p. 22, 1824.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 1835.
 Burmeister, Handb. d. Ent., ii, p. 243, 1835. [*denticulatus* type].
 Brullé, Hist. Nat. des Ins., ix, p. 324, 1835 (as subgen. of *Stenopoda*; names
 Blanchard, Hist. Nat. des Ins., Hémipt., p. 107, 1840 (as subgen. of *Stenopoda*).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *denticu-*
 Amyot and Serville, Hémipt., p. 391, 1843. [*latus* type].
 Stål, Of. Vet. Akad. Forh., xvi, p. 378, 1859.
 Fieber, Europ. Hemip., pp. 41, 150, 1861.
 Stål, Hemip. Afr., iii, p. 149, 1865.
 Douglas and Scott, Brit. Hemip., p. 538, 1865.

Stål, Hemip. Fabr., i, p. 126, 1868.

Stål, Enum. Hemip., ii, p. 121, 1872.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 47, 1872.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 64, 1872.

Walker, Cat. Heter., viii, p. 33, 1873.

Stål, Enum. Hemip., iv, pp. 84, 85, 1874.

Champion, Biol. Centr. Am., Heter., ii, p. 183, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 222, 1903.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.

Ochetopus Hahn, Wanz. Ins., i, p. 176, 1831. (Haplotype *spinipectus* Hahn.)

Spinola, Essai sur les Hémipt., p. 71, 1837.

Spinola, Tavola Sinot., p. 46, 1850.

722. *Pygolampis spurca* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 379, 1859.

Stål, Enum. Hemip., ii, p. 121, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 11, figs. 14, 15, 1898.

Localities: "S. St." (Neotropical.)

723. *Pygolampis sericea* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 378, 380, 1859.

Stål, Enum. Hemip., ii, p. 121, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.

Bueno and Brimley, Ent. News, xviii, p. 436, 1907.

Localities: Mass., N. Y., Pa., Md., N. C., S. C., Texas.

724. *Pygolampis pectoralis* (Say)

Say, Ins. of La., p. 11, 1832; Heter. N. Harm., p. 33, 1832; Fitch reprint, p.

Say in Compl. Writ., i, pp. 306, 357, *Reduvius*.

[802, *Reduvius*.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.

Stål, Enum. Hemip., ii, p. 121, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 429, 1878.

Gillette and Baker, Hemip. Colo., p. 60, 1895.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

Parshley, Psyche, xxi, p. 144, 1914.

fuscipennis Stål, Of. Vet. Akad. Forh., xvi, p. 379, 1859.

Localities: Me., Mass., N. Y., N. J., Del., Md., S. C., Fla., Ill.,

Colo., La., Texas, Ariz., Calif.

Genus *Gnathobleda* Stål

Haplotype *fraudulenta* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 380, 1859.

Stål, Hemip. Fabr., i, p. 126, 1868.

Stål, Enum. Hemip., ii, p. 121, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 184, 1898.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.

725. *Gnathobleda tumidula* Stål

Stål, Enum. Hemip., ii, p. 121, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.

Fracker, Proc. Ia. Acad. Sci., xix, p. 227, 1913.

Localities: Ga., Texas.

Genus **Schumannia** Champ.Haplotype *mexicana* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 185, 1898.

726. **Schumannia mexicana** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 185, pl. 11, fig. 18, 1898.

Bueno and Brimley, Ent. News, xviii, p. 436, 1907.

Localities: N. C. (Mexico.)

Genus **Stenopoda** Lap.Orthotype *cinerea* Lap. = *culiciformis* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 26, 1832.

Burmeister, Handb. d. Ent., ii, p. 243, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 323, 1835.

Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840.

Amyot and Serville, Hémip., p. 390, 1843.

Herrich-Schaeffer, Wanz. Ins., viii, p. 90, 1848.

Spinola, Tavola Sinot., p. 46, 1850.

Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859.

Stål, Hémip. Afr., iii, p. 149, 1865.

Stål, Hémip. Fabr., i, p. 127, 1868.

Stål, Enum. Hémip., ii, p. 122, 1872.

Walker, Cat. Heter., viii, p. 30, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 187, 1898.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.

727. **Stenopoda culiciformis** (Fabr.)

Fabricius, Syst. Ent., p. 728, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 272, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 376, 1781, *Cimex*.

Fabricius, Mantissa Ins., ii, p. 308, 1787, *Cimex*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2193, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 189, 1794, *Gerris*.

Fabricius, Syst. Rhyng., p. 262, 1803, *Gerris*.

Stål, Hémip. Fabr., i, p. 129, 1868.

Stål, Enum. Hémip., ii, p. 122, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.

Uhler, Stand. Nat. Hist., ii, p. 278, 1884.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 287, 1894.

Champion, Biol. Centr. Am., Heter., ii, p. 187, 1898.

Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

cinerea, Laporte, Essai Classif. Syst. Hémip., p. 26, pl. 52, fig. 2, 1832.

Burmeister, Handb. d. Ent., ii, p. 244, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 323, 1835.

Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840.

Uhler, Hayden's Surv. Terr. for 1871, p. 421, 1872.

subincrimis Stål, Of. Vet. Akad. Forh., xvi, p. 384, 1859.

Stål, Enum. Hémip., ii, p. 122, 1872.

†*cana* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.

§*culticis* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.

Localities: N. J., N. C., Ga., Fla., Ala., Ark., Texas, Okl.

Genus **Oncocephalus** Klug

Type *notatus* Klug

Klug, Symb. Physicæ, Ins., ii, p. , 1830 (as subgen. of *Reduvius*).

Burmeister, Handb. d. Ent., ii, p. 242, 1835.

Spinola, Essai sur les Hémipt., p. 101, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémipt., p. 107, 1840 (subgen. of *Stenopoda*).

Amyot and Serville, Hémipt., p. 386, 1843.

Spinola, Tavola Sinot., p. 46, 1850.

Fieber, Europ. Hemip., pp. 42, 151, 1861.

Stål, Hemip. Afr., iii, pp. 150, 155, 1865.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 47, 1872.

Walker, Cat. Heter., vii, pp. 50, 78; viii, p. 23, 1873.

Stål, Enum. Hemip., iv, pp. 84, 87, 1874.

Reuter, Monog. Oncoceph., p. 3, 1882 (*in* Acta Soc. Sci. Fenn., xii).

Distant, Fauna Br. Ind., Rhyn., ii, p. 227, 1903.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 228, 1913.

†*Bacchus* Stål, Hemip. Afr., iii, pp. 150, 154, 1865.

†*Spiloloniis* Stål, Hemip. Fabr., i, p. 128, 1868.

Stål, Enum. Hemip., ii, p. 123, 1872.

728. **Oncocephalus geniculatus** (Stål)

Stål, Enum. Hemip., ii, p. 123, 1872, *Spiloloniis*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876, *Spiloloniis*.

Reuter, Monog. Oncoceph., p. 55, 1872.

Gillette and Baker, Hemip. Colo., p. 60, 1895, *Spiloloniis*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.

Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

Localities: Fla., Texas, Colo.

729. **Oncocephalus apiculatus** Reut.

Reuter, Monog. Oncoceph., p. 56, 1882.

Locality: Mo.

730. **Oncocephalus nubilus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 12, 1914.

Localities: Ariz., Calif.

Genus **Narvesus** Stål

Haplotype *carolinensis* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 383, 384, 1859.

Stål, Hemip. Fabr., i, p. 128, 1868.

Stål, Enum. Hemip., ii, p. 124, 1872.

Walker, Cat. Heter., viii, pp. 30, 31, 1873.

Reuter, Monog. Oncoceph., p. 76, 1882 (Acta Soc. Sci. Fenn., xii, p. 675).

Champion, Biol. Centr. Am., Heter., ii, p. 188, 1898.

Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.

731. *Narvesus carolinensis* Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 385, 1859.
 Stål, Enum. Hemip., ii, p. 124, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
 Reuter, Monog. Oncoceph., p. 76, 1882.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.
 Champion, Biol. Centr. Am., Heter., ii, p. 188, pl. 11, fig. 19, 1898.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
 Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 228, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 Localities: N. J., S. C., Fla., Mo., Texas, Ariz.

Genus *Diaditus* StålHaplotype *semicolon* Stål

- Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859.
 Stål, Hemip. Fabr., i, p. 128, 1868.
 Stål, Enum. Hemip., ii, p. 125, 1872.
 Champion, Biol. Centr. Am., Heter., ii, p. 188, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 226, 1903.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.

732. *Diaditus pictipes* Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 189, pl. 11, fig. 21, 1898.
 Barber, Brookl. Inst. Sci. Bul., i, p. 284, 1906.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 228, 1913.
 Localities: Texas. (Mexico.)

Subfamily **REDUVIINAE** (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xliii, 333, 1843, Groupe *Reduvides*.
 Spinola, Tavola Sinot., p. 145, 1850, Subfam. *Reduvioideae*.
 Puton, Synop. Heter. Fr., i, p. 168, 1879, Div. *Reduviaria*.
 Reuter, Revue d'Ent., vi, p. 157, 1887, *Rediviina*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 248, 1904, *Reduviinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 522, 1908, *Reduviina*.
 Oshanin, Kat. Palae. Hemip., p. 50, 1912, *Reduviinae*.

Acanthaspidida Stål, Hemip. Afr., iii, p. 44, 1865.

- Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872, *Acanthaspidina*.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872, *Acanthaspidida*.
 Stål, Enum. Hemip., ii, p. 108, 1872; iv, pp. 4, 63, 1876, *Acanthaspidina*.
 Uhler, Check List, p. 25, 1886, *Acanthaspidina*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 95, 1896, *Acanthaspidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 190, 1898, *Acanthaspidinac*.
Conorhinini Banks, Cat. Neare. Hemip., p. 17, 1910.

Genus *Reduvius* Fabr.Logotype *personatus* Linn.

- Fabricius, Syst. Ent., p. 729, 1775.
 Fabricius, Ent. Syst., iv, p. 193, 1794.
 Latreille, Précis, p. 84, 1796.
 Lamarek, Syst. Anim. s. Vert., p. 294, 1801 (names *personatus* type).

- Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802 (names *personatus* example).
 Walekenaer, Faune Paris., Ins., ii, p. 351, 1802.
 Stål, Syst. Rhyn., p. 266, 1803 (names *fuscipes* pseudotype).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 257, 1804.
 Latreille, Genera Crust. Ins., iii, p. 128, 1807.
 Fallén, Monog. Cimic., p. 119, 1807.
 Latreille, Consid. Génl., pp. 256, 433, 1810 (names *personatus* type).
 Leach, Brewster's Edinbg. Encey., ix, p. , 1815.
 Fallén, Hemip. Suec., Cimic., p. 155, 1829.
 Latreille, Cuvier, Règne Animal, edn. 2, v, p. 202, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 7, 1832 (names *personatus* type).
 Leach, Brewster's Edinbg. Encey., Am. edn., viii, p. 711, 1832 (for *per-*
 Hahn, Wanz. Ins., ii, p. 16, 1834. [sonatus).
 Herrieh-Schaeffer, Nomen. Ent., 1, pp. 38, 61, 1835.
 Burmeister, Handb. d. Ent., ii, p. 234, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 318, 1835.
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 166, 1836.
 Spinola, Essai sur les Hémip., p. 120, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 103, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
 Amyot and Serville, Hémip., p. 337, 1843.
 Herrieh-Schaeffer, Wanz. Ins., viii, p. 40, 1848.
 Spinola, Tavola Sinot., p. 46, 1850.
 Flor, Rhyn. Livl. i. p. 677, 1860.
 Fieber, Europ. Hemip., pp. 42, 155, 1861.
 Puton, Synop. Heter. Fr., i, p. 173, 1879.
 Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.
 Reuter, Rev. Synon., p. 354, No. 326, 1888.
 Reuter, Monog. Reduvius, p. 3, 1892 (Acta Soc. Sci. Fenn., xix, No. 15).
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 97, 1896.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 250, 1904.
 Oshanin, Verz. Palae. Hemip., i, p. 528, 1908.
 Oshanin, Kat. Palae. Hemip., p. 51, 1912.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 229, 1913.
Opsicoctus Klug, Symb. Physicæ, Ins., ii, p. , 1830.
 Stål, Of. Vet. Akad. Forh., xvi, p. 191, 1859.
 Stål, Hemip. Afr., iii, pp. 122, 138, 1865.
 Stål, Hemip. Fabr., i, p. 124, 1868.
 Stål, Enum. Hemip., ii, pp. 109, 119, 1872.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872.
 Stål, Enum. Hemip., iv, pp. 66, 77, 1874.
 Uhler, Check List, p. 25, 1886.
Oplisopus Jakowlef, Horae Soc. Ent. Ross., viii, p. 78, 1874.

733. *Reduvius personatus* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 446, 1758, *Cimer*.
 Sulzer, Kennz. der Ins., pl. 11, fig. 74, 1761, *Cimer*.
 Linnaeus, Fauna Suec., 2nd. edn., p. 252, No. 941, 1761, *Cimer*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 436, No. 4, 1762 (La Punaise mouche).
 Scopoli, Ent. Carn., p. 130, 1763, *Cimer*. *

- Fabricius, Syst. Ent., p. 730, 1775.
 Foureroy, Ent. Paris., i, p. 195, 1785, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 194, 1794.
 Lamarek, Syst. Anim. s. Vert., p. 294, 1801.
 Wolff, Icon. Cimic., ii, p. 79, fig. 76, 1801.
 Schrank, Fauna Boic., p. 100, 1801.
 Walekenaer, Fauna Paris., ii, p. 352, 1802.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.
 Fabricius, Syst. Rhyng., p. 267, 1803.
 Panzer, Fauna Germ., Fasc. 88, fig. 22, 1804.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 258, 1804.
 Latreille, Genera Crust. Ins., iii, p. 129, 1807.
 Fallén, Monog. Cimic. Suec., p. 120, 1807.
 Fallén Hemip. Suec., Cimic., p. 156, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 8, 1832.
 Hahn, Wanz. Ins., ii, p. 17, fig. 125, 1834.
 Herrich-Schaeffer, Nomen. Ent., i, p. 61, 1835.
 Burmeister, Handb. d. Ent., ii, p. 235, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 319, 1835.
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 166, 1836.
 Spinola, Essai sur les Hémip., p. 120, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 104, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
 Amyot and Serville, Hémip., p. 337, 1843.
 Stål, Of. Vet. Akad. Forh., xvi, p. 191, 1859, *Opsicoetus*.
 Flor, Rhyn. Livl., i, p. 679, 1860.
 Fieber, Europ. Hemip., p. 155, 1861.
 Douglas and Scott, Brit. Hemip., p. 344, 1865.
 Stål, Hemip. Fabr., i, p. 125, 1868, *Opsicoetus*.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872, *Opsicoetus*.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872, *Opsicoetus*.
 Walker, Cat. Heter., vii, p. 180, 1873.
 Stål, Enum. Hemip., iv, p. 77, 1874, *Opsicoetus*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 280, 1884, *Opsicoetus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 184, 1887, *Opsicoetus*.
 Reuter, Revue Synon., p. 354, No. 326, 1888.
 Reuter, Monog. Reduvius, p. 7, 1892 (Acta Soc. Sci. Fenn., xix, No. 15).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894 *Opsicoetus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
 Van Duzee, Can. Ent., xlv, p. 324, 1912.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 229, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 †*tater* (Poda), Ins. Graec., p. 67, 1761, *Cimex*.
 †*quisquilius* (De Geer), Memoirs, iii, p. 282, pl. 15, figs. 1-9, 1773, *Cimex*.
 Retzius, Genera et Spec. Ins., p. 86, 1783, *Cimex*.
 †*annulata* (Harris), Expos. Eng. Ins., p. 89, pl. 26, fig. 5, 1781, *Cimex*.
 †*villosus* Thunbg. Diss. Ent. Nova Ins., ii, p. 35, 1783, *Cimex*.
 †*spungens* (Stål), Enum. Hemip., ii, p. 119, 1872, *Opsicoetus*.
 †*albosignatus* Provancher, Nat. Can., iv, p. 105, 1872.
 Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Ga.,
 Fla., Kan. (Palacaretie.)

734. *Reduvius senilis* Van D.

Van Duzee, Ent. News, xvii, p. 390, 1906.

Fracker, Proc. Ia. Acad. Sci., xix, p. 229, 1913.

Locality: Ariz.

Genus *Meccus* Stål

Logotype *phyllosoma* Burm.

Stål, Berl. Ent. Zeit., iii, p. 105, 1859.

Stål, Hemip. Fabr., i, p. 123, 1868.

Stål, Enum. Hemip., ii, pp. 108, 110, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 209, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

735. *Meccus phyllosomus* (Burm.)

Burmeister, Handb. d. Ent., ii, p. 246, 1835, *Conorhinus*.

Stål, Berl. Ent. Zeit., iii, p. 105, 1859.

Stål, Enum. Hemip., ii, p. 110, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.

Champion, Biol. Centr. Am., Heter., ii, p. 209, pl. 12, figs. 25, 26, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 232, 1913.

Localities: Calif. (Mexico.)

Genus *Triatoma* Lap.

Orthotype *gigas* Fabr. = *rubrofasciatus* (De Geer)

Laporte, Essai Classif. Syst. Hémip., p. 11, 1832.

†*Nabis* Leach, Brewster's Edinbg. Ence., ix, p. , 1815 (for *gigas* Wolff).

Leach, Brewster's Edinbg. Ence., Am. edn., viii, p. 711, 1832 (for
[*gigas*].)

Conorhinus Laporte, Essai Classif. Syst. Hémip., p. 77, 1832 (n.n. for

Burmeister, Handb. d. Ent., ii, p. 245, 1835. [*Triatoma* Lap.].

Brullé, Hist. Nat. des Ins., ix, p. 324, 1835.

Spinola, Essai sur les Hémip., p. 108, 1837 (1840).

Amot and Serville, Hémip., p. 383, 1843.

Herrieh-Schaeffer, Wanz. Ins., viii, p. 69, 1848.

Spinola, Tavola Sinot., p. 46, 1850.

Stål, Berl. Ent. Zeit., iii, p. 106, 1859.

Stål, Hemip. Afr., iii, p. 120, 1865.

Stål, Hemip. Fabr., i, p. 123, 1868.

Stål, Enum. Hemip., ii, pp. 108, 111, 1872.

Walker, Cat. Heter., vii, pp. 50, 81, 1873; viii, p. 12, 1873.

Stål, Enum. Hemip., iv, p. 64, 1874.

Champion, Biol. Centr. Am., Heter., ii, p. 206, 1899.

Distant, Fauna Br. Ind., Rhyn., ii, p. 285, 1904.

736. *Triatoma variegata* (Drury)

Drury, Illust. Exot. Ent., i, p. 109, pl. 45, fig. 5, 1770, *Cimex*.

Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 428, 1878, *Conorhinus*.

- Snow, Trans. Kan. Acad. Sci., xx, pt. 2, 160, 1907, *Conorhinus*.
claviger (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2179, 1788,
lecticularius Stål, Berl. Ent. Zeit., iii, p. 107, 1859, *Conorhinus*. [*Cimex*.
 ‡*lenticularius* Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus*.
 Localities: Md., N. C., S. C., Ga., Fla., La., Ill., Okl., Texas,
 Ariz., Calif.

737. *Triatoma maxima* (Uhler)

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 286, 1894, *Conorhinus*.
 ? Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907, *Conorhinus*.
 Localities: Calif., Ariz.(?). (Mexico.)

738. *Triatoma sanguisuga* (Lec.)

- Lecoute, Proc. Acad. Nat. Sci. Phila., vii, p. 404, 1855, *Conorhinus*.
 Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.
 Marlatt, U. S. Dept. Agr., Div. Ent., Bul. iv, p. 38, 1896, *Conorhinus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 207, 1899, *Conorhinus*.
 Bueno and Brimley, Ent. News, xviii, p. 436, 1907, *Conorhinus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909, *Conorhinus*.
 Bueno and Englehardt, Can. Ent., xlii, p. 151, 1910, *Conorhinus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910, *Conorhinus*.
 Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg), *Conorhinus*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Conorhinus*.
lateralis (Stål), Berl. Ent. Zeit., iii, p. 107, 1859, *Conorhinus*.
 Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus*.
 Localities: N. J., Md., Va., N. C., Fla., Ill., Texas.

739. *Triatoma rubida* (Uhl.)

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 285, 1894, *Conorhinus*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus*.
 Localities: Ariz. (Mexico.)

740. *Triatoma protracta* (Uhl.)

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894, *Conorhinus*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914, *Conorhinus*.
 Localities: Calif. (Mexico.)

741. *Triatoma gerstaeckeri* (Stål)

- Stål, Berl. Ent. Zeit., iii, p. 111, 1859, *Conorhinus*.
 Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus*.
 Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.
 Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906, *Conorhinus*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus*.
 Locality: Texas.

742. *Triatoma rufofasciata* (De Geer)

- De Geer, Mémoires, iii, p. 349, pl. 35, fig. 12, 1773, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 270, 1778, *Cimex*.
 Retzius, Genera et Spec. Ins., p. 87, 1783, *Cimex*.

- Amyot and Serville, Hémip., p. 384, 1843, *Conorhinus*.
 Stål, Berl. Ent. Zeit., iii, p. 106, 1859, *Conorhinus*.
 Stål, Hemip. Afr., iii, p. 142, 1865, *Conorhinus*.
 Stål, Hemip. Fabr., i, p. 123, 1868, *Conorhinus*.
 Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.
 Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1330, *Conorhinus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 208, pl. 12, fig. 22, 1899, *Conorhinus*.
 Kirkaldy, Hawai. Forester and Agricul., i, p. 185, 1904 (distribution).
gigas (Fabricius), Syst. Ent., p. 729, 1775, *Reduvius*.
 Fabricius, Spec. Ins., ii, p. 371, 1781, *Reduvius*.
 Fabricius, Mantissa Ins., ii, p. 309, 1787, *Reduvius*.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2195, 1788, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 193, 1794, *Reduvius*.
 Wolff, Icon. Cimic., iii, p. 119, fig. 113, 1802, *Reduvius*.
 Fabricius, Syst. Rhyng., p. 267, 1803, *Reduvius*.
 Laporte, Essai Classif. Syst. Hémip., p. 11, 1832.
 Burmeister, Handb. d. Ent., ii, p. 246, 1835, *Conorhinus*.
 Brullé, Hist. Nat. des Ins., ix, p. 324, 1835, *Conorhinus*.
 Spinola, Essai sur les Hémip., p. 108, 1837 (1840), *Conorhinus*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 108, 1840, *Conorhinus*. [*linus*.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 72, figs. 841, 842, 1848, *Conor-*
erythrozonias (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, 1788,
 [*Cimex*.
stali Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 967, 1861, *Conorhinus*.
 Localities: Kan., Texas, Calif. (Neotropical, Africa, Asia.)

Genus **Spiniger** Burm.

Logotype *ater* Lep. & Serv.

- Burmeister, Handb. d. Ent., ii, p. 234, 1835.
 Hahn, Wanz. Ins., iii, p. 22, 1835.
 Amyot and Serville, Hémip., p. 334, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 64, 1848.
 Stål, Stet. Ent. Zeit., xx, p. 395, 1859.
 Stål, Hemip. Afr., iii, p. 122, 1865.
 Stål, Berl. Ent. Zeit., xiii, p. 231, 1869.
 Stål, Enum. Hemip., ii, pp. 109, 113, 1872.
 Champion, Biol. Centr. Am., Heter., ii, p. 202, 1899.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 230, 1913.
 **Zelurus* Hahn, Icon. Monog. Cimic., pl. 6, 1826 (for *ocellatus* Hahn =
See Bergroth, Ent. Mitt., ii, p. 11, 1913. [*eburneus* L. & S.).
Acrocoris Hahn, Wanz. Ins., iii, pl. 80, 1835 (*Spiniger* on p. 22).
 Stål, Enum. Hemip., ii, p. 114, 1872 (as subgenus).
Acidoparius Stål, Enum. Hemip., ii, p. 113, 1872 (as subgenus).
Micracidius Stål, Enum. Hemip., ii, p. 114, 1872 (as subgenus).
Opisthacidius Berg, Hemip. Argent., p. 172, 1879 (as subgenus).
Pantopsilus Berg, Hemip. Argent., p. 172, 1879 (as subgenus).

743. **Spiniger bicolor** Stål

- Stål, Stet. Ent. Zeit., xx, p. 396, 1859.
 Stål, Berl. Ent. Zeit., xiii, p. 234, 1869.
 Stål, Enum. Hemip., ii, p. 117, 1872.

Banks, Cat. Neare. Hemip., p. 18, 1910.

Localities: Texas(?), Ariz.(?) (Banks). (Brazil.)

744. *Spiniger arizonica* Banks

Banks, Ent. News, xxi, p. 324, 1910.

Locality: Ariz.

Subfamily **PIRATINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlii, 321, 1843, Groupe *Piratides*.

Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Pciratida*.

Dohrn, Cat. Hemip., p. 50, 1859, *Piratidae*.

Stål, Hemip. Afr., iii, pp. 44, 112, 1865, *Piratida*.

Stål, Of. Vet. Akad. Forh., xxiii, p. 250, 1866, *Piratida*.

Stål, Hemip. Fabr., i, p. 120, 1868, *Piratida*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 43, 46, 1872, *Piratina*.

Stål, Enum. Hemip., ii, pp. 66, 104, 1872; iv, pp. 4, 56, 1874, *Piratina*.

Uhler, Check List, p. 25, 1886, *Piratina*.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 120, 1896, *Piratidae*.

Champion, Biol. Centr. Am., Heter., ii, p. 211, 1899, *Piratinac*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 290, 1904.

Oshanin, Verz. Palae. Hemip., i, p. 534, 1908, *Piratina*.

Banks, Cat. Neare. Hemip., p. 18, 1910, *Piratinini*.

Oshanin, Kat. Palae. Hemip., p. 51, 1912, *Piratinac*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913, *Piratinac*.

Genus *Melanolestes* Stål

Logotype *picipes* H. S.

Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 259, 1866.

Stål, Enum. Hemip., ii, pp. 105, 107, 1872; iv, p. 60, 1874 (as subgen. of

Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.

[*Pirates*).

Champion, Biol. Centr. Am., Heter., ii, p. 213, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

745. *Melanolestes picipes* (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 62, 1848, *Pirates*.

Stål, Of. Vet. Akad. Forh., xxiii, p. 259, 1866.

Stål, Enum. Hemip., ii, p. 107, 1872.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.

Walker, Cat. Heter., vii, p. 97, 1873, *Pirates*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 424, 1878.

Uhler, Stand. Nat. Hist., ii, p. 281, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.

Lintner, 4th Rept. N. Y. St. Ent., p. 109, 1888.

Uhler, Proc. Cal. Acad. Sci., Ser. 2, iv, p. 284, 1894.

Bueno and Brimley, Ent. News, xvii, p. 437, 1907.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

pungens Leconte, Proc. Acad. Nat. Sci. Phila., vii, p. 404, 1856, *Reduvius*.

Localities: Quebec, Me., Mass., N. Y., N. J., Pa., Del., Va., N. C.,

Ga., Ala., Fla., La., Ill., Texas, N. Mex., Okl., Calif.

746. *Melanolestes abdominalis* (H. S.)

- Herrich-Schaeffer, Wanz. Ins., viii, p. 63, fig. 832, 1848, *Pirates*.
 Stål, Enum. Hemip., ii, p. 107, 1872 (as var. of *picipes*).
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 424, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 281, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
 Champion, Biol. Centr. Am., Heter., ii, p. 214, 1899.
 Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.
 Localities: N. Y., N. J., Pa., Md., N. C., Okl., Texas, N. Mex., Calif.

Genus *Rasahus* Am. & Serv.Logotype *sulcicollis* Serv.

- Amyot and Serville, Hémip., p. 325, 1843.
 Stål, Enum. Hemip., ii, p. 105, 1872.
 Walker, Cat. Heter., vii, p. 47, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 214, 1899.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.
Macrosandalus Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 259, 1866 (type
 Walker, Cat. Heter., vii, pp. 85, 98, 1873. [*albomaculatus* Goeze]).
Sphodrocoris Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 261, 1866 (type
 Walker, Cat. Heter., vii, pp. 85, 98, 1873. [*maculipennis* Lep. & Serv.]).

747. *Rasahus biguttatus* (Say)

- Say, Ins. La., p. 13, 1832; Compl. Writ., i, p. 307, *Petalochirus*.
 Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p.
 Stål, Stet. Ent. Zeit., xxiii, p. 457, 1862, *Pirates*. [358, *Petalochirus*.
 Stål, Of. Vet. Akad. Forh., xxiii, p. 258, 1866, *Callisphodrus*.
 Stål, Enum. Hemip., ii, p. 106, 1872.
 Walker, Cat. Heter., vii, p. 98, 1873, *Pirates*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
 Champion, Biol. Centr. Am., Heter., ii, p. 216, pl. 13, fig. 7, 1899.
 Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906.
 Bueno and Brimley, Ent. News, xviii, p. 437, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
mutillarius (Guerin), in Sagra, Hist. de Cuba, Ins., p. 410, 1857, *Reduvius*.
 Uhler in Say's Compl. Writ., i, p. 307, 1859.
 Localities: N. C., Fla., La., Texas. (West Indies.)
 [Has been confused with next. Uncertain localities omitted.]

748. *Rasahus thoracicus* Stål

- Stål, Enum. Hemip., ii, p. 106, 1872.
 Bueno, Ent. News, xxiv, p. 22, 1913.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Essig, Inj. Ben. Ins. Calif., edn. 2, p. 210, 1915.

Localities: Ariz., Calif. (Mexico.)

749. *Rasahus hamatus* (Fabr.)

Fabricius, Spec. Ins., ii, p. 381, 1781, *Reduvius*.

Fabricius, Mantissa Ins., ii, p. 312, 1787, *Reduvius*.

Fabricius, Ent. Syst., iv, p. 203, 1794, *Reduvius*.

Fabricius, Syst. Rhyng., p. 278, 1803, *Reduvius*.

Stål, Hemip. Fabr., i, p. 121, 1868, *Calliphodrus*.

Stål, Enum. Hemip., ii, p. 106, 1872.

Bergroth, Revue d'Ent., xi, p. 262, 1892. (Synon. note.)

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 209.

Champion, Biol. Centr. Am., Heter., ii, p. 217, pl. 13, fig. 8, 1899.

Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906.

[Cimex.

uncinatus (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2200, 1788,

——— Stoll, Abdl. u. Gesch. Wanz., p. 71, fig. 163, 1792 (*Reduvius immittarius* (Fabricius), Syst. Rhyng., p. 280, 1803, *Reduvius*. [Register).

Herrich-Schaeffer, Wanz. Ins., viii, p. 61, fig. 829, 1848, *Pirates*.

Stål, Of. Vet. Akad. Forh., xxiii, p. 258, 1866, *Calliphodrus*.

Walker, Cat. Heter., vii, p. 98, 1873, *Pirates*.

†*maculipennis* (Walker), Cat. Heter., vii, p. 101, 1873, *Pirates*.

concisus (Walker), Cat. Heter., vii, p. 101, 1873, *Pirates*.

Bergroth, Revue d'Ent., xi, p. 263, 1892, *Pirates*.

indecisus (Walker), Cat. Heter., vii, p. 104, 1873, *Pirates*.

contiguus (Walker), Cat. Heter., vii, p. 130, 1873, *Pirates*.

sipolisii (Fallou), Le Naturaliste for 1887, p. 68.

varipes (Fallou), Revue d'Ent., x, p. 10, 1891, *Lestomerus*.

Localities: Texas. (Neotropical.)

Genus *Sirthenea* Spin.

Haplotype *carinata* Fabr.

Spinola, Essai sur les Hémip., p. 100, 1837 (1840).

Spinola, Tavola Sinot., p. 45, 1850.

Stål, Hemip. Afr., iii, pp. 112, 113, 1865.

Stål, Of. Vet. Akad. Forh., xxiii, pp. 250, 252, 1866.

Stål, Enum. Hemip., ii, pp. 104, 105, 1872.

Walker, Cat. Heter., vii, p. 84, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 220, 1899.

Distant, Fauna Br. Ind., Rhyn., ii, p. 303, 1904.

Horvath, Ann. Mus. Natl. Hung., vii, p. 356, 1909 (monograph).

Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

750. *Sirthenea carinata* (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 545, 1798, *Reduvius*.

Coquebert, Illust. Icon. Ins., p. 42, pl. 10, fig. 15, 1799, *Reduvius*.

Fabricius, Syst. Rhyng., p. 278, 1803, *Reduvius*.

Le Peletier and Serville, Encyc. Méth., x, p. 278, 1825, *Reduvius*.

Serville, Ann. Sci. Nat., xxiii, p. 221, 1831, *Pirates*.

Spinola, Essai sur les Hémip., p. 100, 1837 (1840).

Amyot and Serville, Hémip., p. 326, 1843, *Rasahus*.

Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862, *Rasahus*.

- Stål, Of. Vet. Akad. Forh., xxiii, p. 252, 1866.
 Stål, Hemip. Fabr., i, p. 120, 1868.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 156, 1868, *Pirates*.
 Stål, Enum. Hemip., ii, p. 105, 1872.
 Walker, Cat. Hemip., vii, p. 97, 1873, *Pirates*.
 Uhler, Proc. U. S. Geol. Geog. Surv., i, p. 329, 1876.
 Champion, Biol. Centr. Am., Heter., ii, p. 220, 1899 (as syn. of *stria* Fabr.).
 Bueno and Brimley, Ent. News, xviii, p. 437, 1907.
 Horvath, Ann. Mus. Natl. Hung., vii, p. 361, 1909.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.
 †*stria* Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 Localities: N. J., N. C., S. C., Ga., Fla., La., Texas, Calif.
 (Mexico.)

Subfamily ECTRICHODIINAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xlv, 342, 1843, Groupe *Ectichodides*.
 Spinola, Tavola Sinot., pp. 44, 45, 1850, *Ectrichodioidae*.
 Stål, Of. Vet. Akad. Forh., xvi, p. 175, 1859, *Ectrichodides*.
 Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Ectrichodiida*.
 Dohrn, Cat. Hemip., p. 49, 1859, *Ectrichodidae*.
 Stål, Hemip. Afr., iii, pp. 44, 101, 1865, *Ectrichodiida*.
 Stål, Enum. Hemip., ii, pp. 66, 101, 1872, *Ectrichodiina*.
 Walker, Cat. Heter., vii, pp. 45, 47, 52, 79, 1873, *Ectrichodida*.
 Stål, Enum. Hemip., iv, pp. 4, 45, 1874, *Ectrichodiina*.
 Uhler, Check List., p. 25, 1886.
 Champion, Biol. Centr. Am., Heter., ii, p. 221, 1899, *Ectrichodiinae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 304, 1904, *Ectrichodiinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 540, 1908, *Ectrichodina*.
 Banks, Cat. Neare. Hemip., p. 17, 1910, *Ectrichodini*.
 Oshanin, Kat. Palae. Hemip., p. 52, 1912, *Ectrichodiinae*.

Genus *Rhiginia* Stål

Haplotype *lateralis* Lep. & Serv.

- Stål, Of. Vet. Akad. Forh., xvi, pp. 176, 181, 1859.
 Stål, Hemip. Afr., iii, p. 102, 1865.
 Walker, Cat. Heter., viii, p. 61, 1873 (as division 3 of *Ectrichodia*).
 Kirkaldy, Entomol., xxxiii, p. 239, 1900.
 Bergroth, Wien. Ent. Zeit., xxv, p. 5, 1906.
 †*Ectrichodia* Stål, Enum. Hemip., ii, pp. 101, 102, 1872.
 Walker, Cat. Heter., viii, p. 61, 1873.
 Stål, Enum. Hemip., iv, p. 48, 1874.
 Champion, Biol. Centr. Am., Heter., ii, p. 224, 1899.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 234, 1913.

751. *Rhiginia cruciata* (Say)

- Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 802; Compl. Writ., i, p. 358, *Petalochcirus*.
 Stål, Enum. Hemip., ii, p. 103, 1872, *Ectrichodia*.
 Walker, Cat. Heter., viii, p. 56, 1873, *Ectrichodia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Ectrichodia*.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878, *Ectrichodia*.
 Champion, Biol. Centr. Am., Heter., ii, p. 226, 1899, *Ectrichodia*.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, x, p. 294, 1902, *Ectrichodia*.
 Bueno and Brimley, Ent. News, xviii, p. 437, 1907, *Ectrichodia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909, *Ectrichodia*.
 Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910, *Ectrichodia*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Ectrichodia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Ectrichodia*.
bicolor (Herrich-Schaeffer), Wanz. Ins., viii, p. 53, fig. 822, 1848,
media (Walker), Cat. Heter., viii, p. 62, 1873, *Ectrichodia*. [*Ectrychotes*.
 Localities: N. J., Pa., Md., Ga., Fla., Ind., La., Texas, N. Mex.]

752. *Rhiginia cinctiventris* Stål

- Stål, Enum. Hemip., ii, p. 103, 1872, *Ectrichodia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Ectrichodia*.
 Champion, Biol. Centr. Am., Heter., ii, p. 225, pl. 13, fig. 20, 1899, *Ectrichodia*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Ectrichodia*.
 Localities: Texas, N. Mex. (Mexico.)

Genus *Pothea* Am. & Serv.

Logotype *ventralis* Lep. & Serv.

- Amyot and Serville, Hémip., p. 344, 1843.
 Spinola, Tavola Sinot., p. 45, 1850.
 Stål, Of. Vet. Akad. Forh., xvi, pp. 176, 184, 1859.
 Stål, Hemip. Afr., iii, p. 102, 1865.
 Stål, Enum. Hemip., ii, pp. 101, 103, 1872; iv, p. 48, 1874.
 Champion, Biol. Centr. Am., Heter., ii, p. 221, 1899.

753. *Pothea*(?) *aeneo-nitens* Stål

- Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 59, 1864.
 Stål, Enum. Hemip., ii, p. 104, 1872.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913.
 Localities: "Am. Borealis" (probably in error).

Subfamily HAMMACERINAE (Stål)

- Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Hammacerida*.
 Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862, *Hammatoceridae*.
 Stål, Enum. Hemip., ii, pp. 66, 100, 1872; iv, p. 4, 1874, *Hammatocerina*.
 Champion, Biol. Centr. Am., Heter., ii, p. 226, 1899, *Hammatocerinae*.
 Banks, Cat. Neare. Hemip., p. 17, 1910, *Hammatocerini*.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 221, 1913, *Hammatocerinae*.

Genus *Hammacerus* Lap.

Orthotype *conspicillaris* Drury

- Laporte, Essai Classif. Syst. Hémip., p. 79, 1832.
 Spinola, Essai sur les Hémip., p. 81, 1837 (1840).
 Spinola, Tavola Sinot., p. 45, 1850.
 ‡*Hammatocerus* Burmeister, Handb. d. Ent., ii, p. 235, 1835.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 105, 1840.
 Amyot and Serville, Hémip., p. 345, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 49, 1848.
 Stål, Hemip. Afr., iii, p. 102, 1865.

Stål, Enum. Hemip., ii, p. 100, 1872.

Walker, Cat. Heter., vii, pp. 47, 80, 1873.

Fracker, Proc. Ia. Acad. Sci., xix, p. 221, 1913.

754. *Hammacerus purcis* (Drury)

Drury, Illust. Exot. Ent., iii, p. 63, pl. 45, fig. 4, 1782, *Cimcr.* [358, *Nabis*.

Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p. Laporte, Essai Classif. Syst. Hémip., p. 79, 1832 (spelled *furcis*).

Blanchard, Hist. Nat. de Ins. Hémip., p. 105, 1840 (*furcis*).

Amyot and Serville, Hémip., p. 346, 1843 (*furcis*).

Emmons, Nat. Hist. N. Y., Agr. v, p. 168, pl. 30, fig. 6, 1854.

Stål, Enum. Hemip., ii, p. 100, 1872.

Walker, Cat. Heter., viii, p. 65, 1873, *Hammatocerus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Hammatocerus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 426, 1878 (*Hammatocerus furcis*).

Bueno and Brimley, Ent. News, xvii, p. 437, 1907, *Hammatocerus*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Hammatocerus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Hammatocerus*.

nychthemerus Burmeister, Handb. d'Ent., ii, p. 236, 1835, *Hammatocerus*.

Herrieh-Schaeffer, Wanz. Ins., vi, p. 104, fig. 675, 1842, *Hammatocerus*.

Localities: Va., N. C., S. C., Ga., Fla., Ala., Okl., Texas.

755. *Hammacerus luctuosus* Stål

Stål, Of. Vet. Akad. Forh., xi, p. 237, 1854, *Hammatocerus*.

Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862, *Hammatocerus*.

Stål, Enum. Hemip., ii, p. 100, 1872, *Hammatocerus*.

Champion, Biol. Centr. Am., Heter., ii, p. 227, pl. 13, fig. 24, 1899, *Hammatoc-*

Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906, *Hammatocerus*. [cerus.

Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Hammatocerus*.

Localities: Texas. (Neotropical.)

Genus *Homalocoris* Perty

Type *varius* Perty?

Perty, Delec. Anim. Artic., p. 216, 1834.

Stål, Hemip. Afr., iii, p. 102, 1865.

Stål, Enum. Hemip., ii, p. 100, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 227, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 234, 1913.

**Platycoris* Perty, Delec. Anim. Artic., p. 175, 1834 (not of Guérin).

756. *Homalocoris minutus* (Mayr)

Mayr, Ver. Zool.-Bot. Ges. Wien, xv, p. 439, 1866, *Hammatocerus*.

Stål, Enum. Hemip., ii, p. 101, 1872.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 170, 1906; pt. 2, p. 160, 1907.

Locality: Ariz.

757. *Homalocoris maculicollis* Stål

Stål, Enum. Hemip., ii, p. 101, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 228, pl. 13, fig. 22, 1899.

Banks, Cat. Neare. Hemip., p. 17, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.

Localities: Ariz.(?). (Neotropical.)

758. *Homalocoris guttatus* (Walk.)

Walker, Cat. Heter., vii, p. 181, 1873, *Reduvius*.

Champion, Biol. Centr. Am., Heter., ii, p. 229, pl. 13, fig. 26, 1899.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.

Localities: Ariz. (Mexico.)

Subfamily APIOMERINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlv, 350, 1843, Groupe *Apiomerides*.

Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Apiomerida*.

Dohrn, Cat. Hemip., p. 50, 1859, *Apiomeridae*.

Stål, Hemip. Afr., iii, p. 44, 1865, *Apiomerida*.

Stål, Of. Vet. Akad. Forh., xxiii, p. 247, 1866, *Apiomerida*.

Stål, Enum. Hemip., ii, pp. 66, 92, 1872, *Apiomerina*.

Walker, Cat. Heter., vii, pp. 45, 48, 70, 1873; viii, p. 66, 1873, *Apiomeridae*.

Stål, Enum. Hemip., iv, pp. 3, 44, 1874, *Apiomerina*.

Uhler, Check List, p. 24, 1886, *Apiomerina*.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 144, 1896, *Apiomeridae*.

Champion, Biol. Centr. Am., Heter., ii, p. 229, 1899.

Distant, Fauna Br. Ind., Rhyn., ii, p. 326, 1904.

Banks, Cat. Neare. Hemip., p. 16, 1910, *Apiomerini*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.

Ectinoderida Stål, Berl. Ent. Zeit., iii, p. 328, 1859.

Stål, Hemip. Afr., iii, pp. 44, 99, 1865.

Genus *Apiomerus* Lap.

Orthotype *hirtipes* Fabr.

Hahn, Wanz. Ins., i, p. 29, 1831 (invalid here).

Laporte, Essai Classif. Syst. Hémip., p. 82, 1832.

Burmeister, Handb. d. Ent., ii, p. 230, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 318, 1835.

Spinola, Essai sur les Hémip., p. 108, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 102, 1840.

Amyot and Serville, Hémip., p. 351, 1843.

Spinola, Tavola Sinot., p. 46, 1850.

Stål, Of. Vet. Akad. Forh., xxiii, pp. 247, 249, 1866.

Stål, Hemip. Fabr., i, p. 116, 1868.

Stål, Enum. Hemip., ii, pp. 94, 95, 1872.

Walker, Cat. Heter., vii, pp. 48, 72, 1873; viii, p. 66, 1873.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330 (*Apiomerina* by error).

Champion, Biol. Centr. Am., Heter., ii, p. 230, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.

Subgenus *Apiomerus* Lap.

Stål, Enum. Hemip., ii, p. 96, 1872.

759. *Apiomerus subpiceus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 454, 1862.

Stål, Enum. Hemip., ii, p. 97, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 237, pl. 14, fig. 12, 1889.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906; pt. 2, p. 160, 1907.

Banks, Cat. Neare. Hemip., p. 16, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.

Localities: Ariz. (Neotropical.)

760. *Apiomerus moestus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862.

Stål, Enum. Hemip., ii, p. 97, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 239, pl. 14, figs. 19, 20, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.

Localities: Ariz. (Mexico.)

761. *Apiomerus longispinis* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 239, pl. 14, fig. 18, 1899.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907.

Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910, *longispinus*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.

Localities: Ariz. (Mexico.)

762. *Apiomerus immundus* Bergr.

Bergroth, Bul. Soc. Ent. Fr. for 1898, p. 307.

Champion, Biol. Centr. Am., Heter., ii, p. 238, pl. 14, fig. 17, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.

Localities: Calif. (Mexico.)

763. *Apiomerus repletus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876.

Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.

Locality: Calif.

Subgenus *Herega* Am. & Serv.

Haplotype *rubrolimbata* Am. & Serv. = *crassipes* Fabr.

Amyot and Serville, Hémip., p. 354, 1843.

Stål, Enum. Hemip., ii, p. 98, 1872.

764. *Apiomerus crassipes* (Fabr.)

Fabricius, Syst. Rhyng., p. 273, 1803, *Reduvius*.

Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 4, *Reduvius*.

Stål, Hemip. Fabr., i, p. 117, 1868.

Stål, Enum. Hemip., ii, p. 98, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876.

Uhler, Stand. Nat. Hist., ii, p. 281, 1884.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.

Champion, Biol. Centr. Am., Heter., ii, p. 242, 1899.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 135, 1911 (egg).

Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

linitaris (Say), Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 800; Compl.
[Writ., i, p. 355, *Reduvius*.

rubrolimbata Amyot and Serville, Hémip., p. 354, 1843, *Herega*.

Localities: N. J., N. C., Fla., Ind., Neb., Kan., Colo., Utah, La.,
Texas, Ariz., Calif., Vanc. Isd.

765. *Apiomerus spissipes* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 328, 1825; Compl. Writ., ii, p. 250,

[*Reduvius*.

- Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 3, *Reduvius*.
 Stål, Enum. Hemip., ii, p. 98, 1872.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Herega*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876; iii, p. 429, 1877.
 Champion, Biol. Centr. Am., Heter., ii, p. 241, pl. 14, fig. 25, 1899.
 Barber, Brookl. Inst. Sci. Bul., i, p. 285, 1906.
 Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 63, pt. 4, p. 49, 1907.
 Fraecker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
 Localities: Colo., Ariz., Texas. (Mexico.)

766. *Apiomerus flaviventris* H. S.

- Herrich-Schaeffer, Wanz. Ins., viii, p. 77, fig. 847, 1853.
 Stål, Enum. Hemip., ii, p. 98, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876; iii, p. 429, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
 Fraecker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
 Localities: Fla., Colo., N. Mex., Texas, Ariz., Calif. (Mexico.)

767. *Apiomerus pictipes* H. S.

- Herrich-Schaeffer, Wanz. Ins., viii, p. 75, fig. 843, 1853.
 Stål, Enum. Hemip., ii, p. 98, 1872.
 Gillette and Baker, Hemip. Colo., p. 60, 1895.
 Champion, Biol. Centr. Am., Heter., ii, p. 243, pl. 14, figs. 28, 29, 30, 31, 1899.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
 Fraecker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
 Localities: Colo., N. Mex. (Neotropical.)

Subfamily HARPACTORINAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xlv, 355, 1843, Groupe *Harpactorides*.
 Spinola, Tavola Sinot., p. 45, 1850, *Harpactoroidae*.
 Dohrn, Cat. Hemip., p. 44, 1859, *Harpactorina*.
 Walker, Cat. Heter., viii, p. 75, 1873, *Harpactoridac*.
 Puton, Cat. Hémip. Palae., p. 39, 1886, Div. *Harpactoraria*.
 Reuter, Revue d'Ent., vi, p. 149, 1887, *Harpactorina*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 150, 1896, *Harpactoridae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 244, 1899, *Harpactorinae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 329, 1904, *Harpactorinae*.
 Oshanin, Verz. Palae. Hemip., i, p. 544, 1908, *Harpactorina*.
 Oshanin, Kat. Palae. Hemip., p. 52, 1912, *Harpactorinae*.
 †*Reduvides* Stål, Of. Vet. Akad. Forh., xvi, p. 195, 1859.
 Stål, Hemip. Afr., iii, pp. 43, 46, 1865, *Reduviida*. [tables).
 Stål, Of. Vet. Akad. Forh., xxiii, pp. 263, 283, 292, 1866 (synoptic
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 60, 1872, *Reduviina*.
 Stål, Enum. Hemip., ii, pp. 66, 67, 1872, *Reduviina*.
 Walker, Cat. Heter., vii, pp. 51, 52, 53, 1873.
 Stål, Enum. Hemip., iv, pp. 3, 6, 1874, *Reduviina*.
 Uhler, Check List, p. 23, 1886, *Reduviina*.

TRIBE ZELINI (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xlvi, 367, 1843, *Zelides*.
 Stål, Of. Vet. Akad. Forh., xvi, pp. 196, 366, 1859 (without name, gives key).

Banks, Cat. Neare. Hemip., p. 15, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913, *Zelinae*.

†*Reduviida* Stål, Berl. Ent. Zeit., iii, p. 328, 1859.

Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862. [key to genera].

Stål, Of. Vet. Akad. Forh., xxiii, p. 292, 1866 (without name, with

Harpactoraria Distant, Fauna Br. Ind., Rhyn., ii, p. 331, 1904.

Genus *Zelus* Fabr.

Orthotype *longipes* Linn.

Fabricius, Syst. Rhynch., p. 281, 1803.

Latreille, Hist. Nat. Crust. Ins., xii, p. 260, 1804 (for *longipes* Linn.).

Latreille, Genera Crust. Ins., iii, p. 129, 1807.

Latreille, Consid. Génl., p. 433, 1810 (names *longipes* type).

Leach, Brewster's Edinbg. Encey., ix, p. , 1815.

Le Peletier and Serville, Encey. Méth., p. 815, 1825.

Laporte, Essai Classif. Syst. Hémip., p. 9, 1832 (names *festinans* Fabr. pseudo-

Brullé, Hist. Nat. des Ins., ix, p. 316, 1835. [type].

Burmeister, Handb. d. Ent., ii, p. 225, 1835 (incorrect as to species).

Blanchard, Hist. Nat. des Ins., Hémip., p. 100, 1840.

Stål, Stet. Ent. Zeit., xxii, p. 148, 1861.

Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862.

Stål, Hemip. Fabr., i, p. 107, 1868.

Stål, Enum. Hemip., ii, p. 88, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 251, 1898.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 238, 1913.

†*Euagoras* Herrich-Schaeffer, Wanz. Ins., viii, p. 43, 1853.

[Stål, 1866, restricts *Euagoras* Burm. to *stolli* and allies.]

†*Euagoras* Amyot and Serville, Hémip., p. 368, 1843.

[See Hemip. Afr., iii, p. 51, 1865.]

Provancher, Pet. Faune Ent. Can., iii, p. 182, 1887.

†*Arilus* Spinola, Tavola Sinot., p. 48, 1850 (part).

Subgenus *Zelus* Fabr.

Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862.

Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as genus).

Stål, Enum. Hemip., ii, p. 88, 1872.

768. *Zelus bilobus* Say

Say, Ins. La., p. 12, 1832; Compl. Writ., i, p. 306.

Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862 (as var. of *longipes* Linn.).

Stål, Enum. Hemip., ii, p. 88, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.

Bueno and Englehardt, Can. Ent., xlii, p. 150, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

Localities: N. C., S. C., Ga., Fla., La., Texas.

769. *Zelus pictipes* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 255, pl. 15, fig. 14, 1899.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Localities: Ariz. (Mexico, Guatemala.)

770. *Zelus cervicalis* Stål

Stål, Enum. Hemip., ii, p. 90, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Champion, Biol. Centr. Am., Heter., ii, p. 255, 1899.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

marginata (Provancher), Pet. Faune Ent. Can., iii, p. 182, 1887, *Evagoras*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.

Localities: Ont. (accidental?), Va., N. C., S. C., Fla., La., Texas, Ariz., Calif. (Mexico.)

Subgenus *Diplocodus* Kirk.

Logotype *armillatus* Lep. & Serv.

Kirkaldy, Entomologist, xxxiii, p. 242, 1900 (n.n. for *Diplodus* Am. & Serv.).

||*Diplodus* Amyot and Serville, Hémip., p. 370, 1843 (as distinct genus).

Stål, Stet. Ent. Zeit., xxiii, p. 450, 1862.

Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as distinct genus).

Stål, Enum. Hemip., ii, p. 90, 1872.

Walker, Cat. Heter., vii, p. 66, 1873; viii, p. 123, 1873.

Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.

§*Diploda* Walker, Cat. Heter., vii, p. 49, 1873 (error for *Diplodus*).

†*Darbanus* Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887.

Fracker, Proc. Ia. Acad. Sci., xix, p. 241, 1913.

771. *Zelus exsanguis* (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 452, 1862, *Diplodus*.

Stål, Enum. Hemip., ii, p. 91, 1872, *Diplodus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Diplodus*.

Champion, Biol. Centr. Am., Heter., ii, p. 259, pl. 15, fig. 23, 1899, *Zelus*

Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906. [(excl. synonym.)]

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Parshley, Psyche, xxi, p. 144, 1914.

Reduvius sp., Emmons, Nat. Hist. N. Y., Agr., v, p. 168, pl. 7, fig. 3, 1854.

luridus Stål, Stet. Ent. Zeit., xxiii, p. 452, 1862, *Diplodus*.

Stål, Enum. Hemip., ii, p. 91, 1872, *Diplodus*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Diplodus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876; iii, p. 429, 1877,

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 427, 1878, *Diplodus*. [*Diplodus*.

Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887, *Diplodus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Diplodus*.

Gillette and Baker, Hemip. Colo., p. 60, 1895, *Diplodus*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904, *Zelus*.

Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910, *Zelus*.

Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910, *Zelus*.

Van Duzee, Can. Ent., xlv, p. 324, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

georgiae (Provancher), Nat. Can., iv, p. 106, 1872, *Darbanus*.

Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887, *Darbanus*.

palliatius (Provancher), Pet. Faune Ent. Can., iii, p. 182, 1887, *Darbanus*.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., S. C., Fla., Colo., Texas, Ariz., Calif.

772. *Zelus laevicollis* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 260, pl. 15, fig. 24, 1899, *Zelus*.

Banks, Cat. Neare. Heter., p. 16, 1910, *Zelus*.

Localities: Texas. (Mexico.)

773. *Zelus renardii* Kolen.

Kolenati, Melet. Ent., vi, p. 42, pl. 3, fig. 2, 1857, *Zelus*.

Stål, Enum. Hemip., ii, p. 91, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Diplodus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Diplodus*.

?*peregrinus* Kirkaldy, Fauna Hawaii, iii, p. 149, 1902, *Zelus*.

Kirkaldy, Can. Ent., xxxix, p. 247, 1907, *Zelus*. [*Diplocodus*.

?*exsanguis* Van Duzee, Trans. San. Diego Soc. Nat. Hist., ii, p. 13, 1914,

Localities: Calif. (Mexico, Hawai. Isds.)

Subgenus *Pindus* StålHaplotype *tetracanthus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 454, 1862.

Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as distinct genus).

Stål, Enum. Hemip., ii, p. 92, 1872.

Walker, Cat. Heter., vii, p. 66, 1873.

Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.

774. *Zelus socius* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.

Gillette and Baker, Hemip. Colo., p. 60, 1895, *Diplodus*.

Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906, *Zelus*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913, *Zelus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Localities: Fla., Ill., Kan. Dak., Colo., Utah, N. Mex., Ariz., Calif., Idaho.

775. *Zelus audax* Banks

Banks, Ent. News, xxi, p. 325, 1910, *Zelus*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.

Localities: Ont., Me., N. Y., Va.

776. *Zelus occiduus* Bueno

Bueno, Ent. News, xxiv, p. 22, 1913.

Localities: Calif.

Genus *Rhynocoris* HahnLogotype *cruentus* Fabr. = *iracundus* Poda

Hahn, Wanz. Ins., ii, p. 20, 1834.

Kolenati, Melet. Ent., vi, p. 42, 1857, *Rhinocoris*.

Stål, Of. Vet. Akad. Forh., xxiii, p. 284, 1866, *Rhinocoris*.

- Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872 (as subgenus).
 Stål, Enum. Hemip., iv, p. 40, 1874 (as subgenus).
 Kirkaldy, Entomologist, xxxiii, p. 242, 1900.
 Reuter, Of. Finska, Vet. Soc. Forh., liv, Afd. A, No. 7, p. 20, 1912.
 Oshanin, Kat. Palae. Hemip., p. 53, 1912, *Rhinocoris*.
 ‡*Harpactor* Burmeister, Handb. d. Ent., ii, p. 229, 1835 (part).
 Spinola, Essai sur les Hémipt., p. 117, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hemip., p. 102, 1840 (as subgen.).
 Amyot and Serville, Hémipt., p. 364, 1843.
 Dohrn, Cat. Hemip., p. 45, 1859.
 Flor, Rhyn. Livl., i, p. 681, 1860.
 Fieber, Europ. Hemip., pp. 42, 152, 1861.
 Walker, Cat. Heter., viii, p. 94, 1873.
 Puton, Synop. Hemip. Fr., i, p. 176, 1879.
 Puton, Cat. Hémipt. Palae., edn. 3, p. 39, 1886. [pseudotype].
 Reuter, Rev. Synon., p. 350, No. 318, 1888 (names *annulatus* Linn.
 Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 157, 1896.
 Bergroth, Ent. News., viii, p. 96, 1897.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 332, 1904.
 Oshanin, Verz. Palae. Hemip., i, p. 546, 1908.
 Banks, Cat. Neare. Hemip., p. 17, 1912.
 ‡*Reduvius* Stål, Hemip. Afr., iii, pp. 54, 75, 1865.
 Stål, Of. Vet. Akad. Forh., xxiii, pp. 283, 284, 1866.
 Stål, Hemip. Fabr., i, p. 110, 1868.
 Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 45, 1872.
 Stål, Enum. Hemip., iv, p. 37, 1874.
Oncauchenius Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872 (as sub-
 Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus). [genus].
Hypertolmus Stål, Enum. Hemip., iv, p. 37, 1874 (subgen., type *nitidulus*
Diphymus Stål, Enum. Hemip., iv, p. 37, 1874 (as subgenus).
Chirillus Stål, Enum. Hemip., iv, p. 38, 1874 (as subgenus).
Lamphrius Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus).
Harpiscus Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus).
Taeniorphus Stål, Enum. Hemip., iv, p. 40, 1874 (as subgenus).
Charontus Stål, Enum. Hemip., iv, p. 41, 1874 (as subgenus).
Coranideus Reuter, Acta Soc. Sci. Fenn., xii, p. , 1881 (reprint, p. 28).
 [Subgenera *Zostus* Stål, *Dinocleptes* Stål, *Agrioclopius* Stål, and *Ap-
 polestes* Stål, Enum. Hemip., iv, pp. 37-41, are not found in
 America.]

777. *Rhinocoris ventralis* (Say)

- Say, Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 800; Compl. Writ., i, p.
 Stål, Enum. Hemip., ii, p. 128, 1872. (Genus?) [355, *Reduvius*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Apiomercus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 508, 1877, *Apiomercus*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Apiomercus*.
 Gillette and Baker, Hemip. Colo., p. 60, 1895, *Apiomercus*.
 Parshley, Psyche, xxi, p. 144, 1914, *Apiomercus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
 Parshley, Ent. News, xxxvii, p. 105, 1916, *Apiomercus*.
 Localities: Me., Mass., Mo., Neb., N. D., Sask., Colo., Utah, Calif.

a. var. americanus Bergr.Bergroth, Ent. News, viii, p. 96, 1897, *Harpactor*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Locality: Calif.

b. var. annulipes Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Locality: Calif.

c. var. femoralis Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Locality: Calif.

778. *Rhynocoris leucospilus* (Stål)Stål, Of. Vet. Akad. Forh., xvi, p. 203, 1859, *Reduvius*.

Stål, Enum. Hemip., iv, p. 43, 1874. (Genus?)

Reuter, Acta Soc. Sci. Fenn., xii, p. , 1881 (separata, p. 27), *Reduvius*.Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 160, 1876, *Harpactor*.

Bergroth, Ent. News, viii, p. 96, 1897.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Harpactor*.*dybowski* (Jakowlef), Bul. Soc. Imp. Nat. Mosc., iii, p. 123, 1876,*feberi* Nowicki, Nowe Owady, p. 1 (unknown to Oshanin). [*Harpactor*.

Localities: Sitka. (Palearctic.)

Genus *Pselliopus* Bergr.Haplotype *ornaticeps* StålBergroth, Revue d'Ent., xxiv, p. 112, 1905 (n.n. for *Milyas* Stål).

Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 237, 1913.

||*Milyas* Stål, Rio Jan. Hemip., ii, p. 61, 1862.

Stål, Of. Vet. Akad. Forh., xxiii, p. 295, 1866.

Stål, Enum. Hemip., ii, p. 86, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 244, 1899.

779. *Pselliopus cinctus* (Fabr.)Fabricius, Genera Ins., p. 302, 1776, *Reduvius*.Fabricius, Spec. Ins., ii, p. 379, 1778, *Reduvius*.Fabricius, Mantissa Ins., ii, p. 310, 1787, *Reduvius*.Fabricius, Ent. Syst., iv, p. 199, 1794, *Reduvius*.Fabricius, Syst. Rhyn., p. 272, 1803, *Reduvius*.Herrich-Schaeffer, Wanz. Ins., viii, p. 83, fig. 853, 1848, *Harpactor*.Stål, Stet. Ent. Zeit., xxiii, p. 448, 1862, *Milyas*.Stål, Hemip. Fabr., i, p. 106, 1868, *Milyas*.Stål, Enum. Hemip., ii, p. 87, 1872, *Milyas*.Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Milyas*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Milyas*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 427, 1878, *Milyas*.Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Milyas*.Gillette and Baker, Hemip. Colo., p. 59, 1895, *Milyas*.Bueno and Brimley, Ent. News, xviii, p. 437, 1907, *Milyas*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914. [1788, *Cimer*.*praeinctus* (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2198.

Localities: Mass., Conn., N. Y., N. J., Pa., Va., N. C., Ga., Fla.,

Ohio, Ill., Colo., Wyom., Okl., Texas.

780. *Pselliopus barberi* Davis

Davis, Psyche, xix, p. 21, 1912.

Localities: Md., Va., Ohio, Mo., Kan., Texas.

781. *Pselliopus zebra* (Stål)Stål, Stet. Ent. Zeit., xxiii, p. 448, 1862, *Milyas*.Stål, Enum. Hemip., ii, p. 87, 1872, *Milyas*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Milyas*.Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Milyas*.Champion, Biol. Centr. Am., Heter., ii, p. 247, pl. 15, figs. 5, 6, 1899, *Milyas*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.

Localities: Ariz., Calif. (Mexico.)

782. *Pselliopus spinicollis* (Champ.)Champion, Biol. Centr. Am., Heter., ii, p. 245, pl. 15, fig. 2, 1899, *Milyas*.Barber, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910, *Milyas*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.

Localities: Idaho, Ariz., Calif. (Mexico.)

783. *Pselliopus inermis* (Champ.)Champion, Biol. Centr. Am., Heter., ii, p. 246, pl. 15, fig. 4, 1899, *Milyas*.Barber, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910, *Milyas*.

Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.

Localities: Ariz. (Mexico.)

Genus *Castolus* StålHaplotype *plagiaticollis* Stål

Stål, Of. Vet. Akad. Forh., xv, p. 447, 1858; xxiii, p. 294, 1866.

Stål, Enum. Hemip., ii, p. 80, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 278, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 243, 1913.

784. *Castolus subinermis* (Stål)Stål, Stet. Ent. Zeit., xxiii, p. 447, 1862, *Repipta*.

Stål, Enum. Hemip., ii, p. 80, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 280, pl. 17, fig. 6, 1899.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Localities: Ariz. (Mexico.)

785. *Castolus ferox* (Banks)Banks, Ent. News, xxi, p. 325, 1910, *Zelus*.

Bergröth, Ent. News, xxiv, p. 265, 1913.

Fracker, Proc. Ia. Acad. Sci., xix, p. 243, 1913.

Locality: Ariz.

Genus *Repipta* StålLogotype *lineatus* Am. & Serv. = *taurus* Fabr.

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 369, 1859.

Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862.

Stål, Of. Vet. Akad. Forh., xxiii, p. 293, 1866.

Stål, Enum. Hemip., ii, pp. 69, 80, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 267, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 241, 1913.

[*cornis* Stål.)*Spinda* Stål, Of. Vet. Akad. Forh., xvi, p. 371, 1859. (Haplotype *spissi-*

786. *Repipta taurus* (Fabr.)

Fabricius, Syst. Rhynch., p. 291, 1803, *Zelus*.

Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862.

Stål, Enum. Hemip., ii, p. 80, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Gillette and Baker, Hemip. Colo., p. 59, 1895.

Champion, Biol. Centr. Am., Heter., ii, p. 269, pl. 16, fig. 13, 1899.

Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

lineatus (Amyot and Serville), Hémip., p. 373, 1843, *Zelus*.

Stål, Of. Vet. Akad. Forh., xvi, p. 369, 1859.

Localities: Pa., "Carolina," Fla., Colo., Texas. (Mexico.)

787. *Repipta mucosa* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 271, pl. 16, fig. 17, 1899.

Localities: Texas. (Central America.)

788. *Repipta flavicans* (A. & S.)

Amyot and Serville, Hémip., p. 374, 1843, *Zelus*.

Stål, Of. Vet. Akad. Forh., xvi, p. 369, 1859.

Stål, Stet. Ent. Zeit., xxiii, p. 447, 1862, *Zelus*.

Stål, Enum. Hemip., ii, p. 80, 1872.

Walker, Cat. Heter., viii, p. 132, 1873, *Zelus*.

Berg, Hemip. Argent., p. 147, 1879.

Champion, Biol. Centr. Am., Heter., ii, p. 269, pl. 16, fig. 14, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.

lateralis (Herrich-Schaeffer), Wanz. Ins., ix, p. 120, 1853, *Zelus*.

ochraceus (Herrich-Schaeffer), Wanz. Ins., ix, p. 121, 1853, *Zelus*.

varipes (Herrich-Schaeffer), Wanz. Ins., ix, p. 121, 1853, *Zelus*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 139, 1868.

Stål, Enum. Hemip., ii, p. 80, 1872.

Localities: Texas (not Ill. as per Fracker). (Neotropical.)

Genus *Fitchia* StålHaplotype *aptera* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 367, 370, 1859; xxiii, p. 293, 1866.

Stål, Enum. Hemip., ii, pp. 69, 79, 1872.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 242, 1913.

789. *Fitchia aptera* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 371, 1859.

Heidemann, Proc. Ent. Soc. Wash., iv, p. 123, 1897.

Fracker, Proc. Ia. Acad. Sci., xix, p. 243, 1913.

Parshley, Psyche, xxi, p. 144, 1914.

nigro-vittata Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (n.n. for *aptera*).

Stål, Enum. Hemip., ii, p. 79, 1872.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893.

Gillette and Baker, Hemip. Colo., p. 59, 1895.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 32, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.

Localities: Me., Mass., N. Y., N. J., Pa., S. C., Ill., Kan., Colo.,
Utah, Okl., Texas.

790. *Fitchia spinosula* Stål

Stål, Enum. Hemip., ii, p. 79, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Gillette and Baker, Hemip. Colo., p. 59, 1895.

Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

Localities: Ga., Fla., Texas, Colo.

Genus *Rocconota* Stål

Logotype *sextuberculata* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 370, 1859; xxiii, p. 293, 1866.

Stål, Enum. Hemip., ii, pp. 69, 79, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 272, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 242, 1913.

791. *Rocconota annulicornis* (Stål)

Stål, Enum. Hemip., ii, p. 77, 1872, *Heza*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Heza*.

Champion, Biol. Centr. Am., Heter., ii, p. 273, pl. 16, fig. 21, 1899.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.

Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.

Localities: N. J., Texas. (Mexico.)

Genus *Atrachelus* Am. & Serv.

Haplotype *heterogeneous* Am. & Serv. = *cinereus* (Fabr.)

Amyot and Serville, Hémip., p. 374, 1843.

Stål, Of. Vet. Akad. Forh., xxiii, p. 293, 1866.

Stål, Enum. Hemip., ii, pp. 66, 78, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 283, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 244, 1913.

792. *Atrachelus cinereus* (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 545, 1796, *Reduvius*.

Fabricius, Syst. Rhyng., p. 287, 1803, *Zelus*.

Stål, Enum. Hemip., ii, p. 78, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.

Champion, Biol. Centr. Am., Heter., ii, p. 284, pl. 17, fig. 16, 1899.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Fracker, Proc. Ia. Acad. Sci., xix, p. 244, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

heterogeneous Amyot and Serville, Hémip., p. 374, pl. 7, fig. 4, 1843.

Localities: Pa., N. C., S. C., Fla., Texas. (Mexico.)

Genus *Doldina* Stål

Haplotype *carinulata* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 368, 1859; xxiii, p. 292, 1866.

Stål, Enum. Hemip., ii, p. 78, 1872 (as synonym of *Hygromystes*).

Bergroth, Ent. News, xxiv, p. 263, 1913.

Hygromystes Stål, Rio Jan. Hemip., i, p. 75, 1860 (type *lautus* Stål).

Stål, Of. Vet. Akad. Forh., xxiii, p. 292, 1866.

Stål, Enum. Hemip., ii, pp. 68, 78, 1872.

793. *Doldina praetermissa* Bergr.

Bergroth, Ent. News, xxiv, p. 264, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

Localities: Fla. (Central America.)

794. *Doldina interjungens* Bergr.

Bergroth, Ent. News, xxiv, p. 263, 1913.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.

Hygromystes sp. Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.

Localities: Md., N. C.

TRIBE HARPACTORINI (Stål)

Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.

Van Duzee, Can. Ent., xlvi, p. 384, 1914, *Harpactorinae*.

Hezida Stål, Berl. Ent. Zeit., iii, p. 328, 1859.

Genus *Heza* Am. & Serv.

Haplotype *binotata* Lep. & Serv.

Amyot and Serville, Hémip., p. 374, 1843.

Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.

Stål, Hemip. Afr., iii, p. 48, 1865.

Stål, Hemip. Fabr., i, p. 100, 1868.

Stål, Enum. Hemip., ii, pp. 68, 75, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 284, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 225, 244, 1913.

795. *Heza similis* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 199, 1859.

Stål, Hemip. Fabr., i, p. 100, 1868.

Stål, Enum. Hemip., ii, p. 76, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 285, pl. 17, figs. 17, 18, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 244, 1913.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.

Localities: Calif. (Neotropical.)

[*Heza clavata* Guérin. See Ashmead, Insect Life, vii, p. 321, 1895. Probably a wrong determination of *Atrachelus cinereus* or an allied form.]

Genus *Arilus* Burm.

Logotype *serratus* Fabr. = *carinatus* (Forst.)

Hahn, Wanz. Ins., i, p. 33, 1831 (nomen nudum, for *serratus* Fabr.).

Burmeister, Handb. d. Ent., ii, p. 227, 1835.

Herrieh-Schaeffer, Wanz. Ins., viii, p. 33, 1848.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 196, 1896.

Champion, Biol. Centr. Am., Heter., ii, p. 287, 1899.

- Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 245, 1913. [Harpactor].
 ||*Prionotus* Laporte, Essai Classif. Syst. Hémip., p. 8, 1832 (subgen. of
 Spinola, Essai sur les Hémip., p. 117, 1837 (names *serratus* Fabr. as
 Amyot and Serville, Hémip., p. 356, 1843. [example].
 Spinola, Tavola Sinot., p. 47, 1850.
 Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.
 Stål, Hemip. Afr., iii, p. 47, 1865.
 Stål, Enum. Hemip., ii, p. 72, 1872.
 †*Zelus*, Div. 5, Blanchard, Hist. Nat. des Ins., Hémip., p. 102, 1840.
Prionidus Uhler, Check List, p. 23, 1886 (n.n. for *Prionotus* Lap.).

796. *Arilus cristatus* (Linn.)

- Linnaeus, Cent. Ins. Rar., p. 16, 1763, *Cimex*.
 Linnaeus, Syst. Nat., edn. 12, i, pt. 2, p. 723, 1767, *Cimex*.
 Gmelin in Linnaeus, Syst. Nat.; edn. 13, i, pt. 4, p. 2195, 1788, *Cimex*.
 Stål, Enum. Hemip., ii, p. 72, 1872, *Prionotus*.
 Uhler, Proc. U. S. Geol. Geog. Surv., i, p. 327, 1876, *Prionotus*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Prionotus*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 426, 1878, *Prionotus*.
 Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Prionotus*.
 Lintner, 6th Rept. N. Y. St. Ent., p. 138, 1890, *Prionidus*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Prionidus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 288, 1899.
 Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914. [fig. 2, *Reduvius*.
 novenarius (Say), Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 71, pl. 31.
 Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ.,
 Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859, *Prionotus*. [i, p. 358, *Nabis*.
 Walker, Cat. Heter., viii, p. 76, 1873, *Prionotus*.
 denticulatus Westwood in Drury, Illust. Exot. Ent., edn. 2, p. 73, 1837.
 patulus (Walker), Cat. Heter., viii, p. 76, 1873, *Prionotus*.
 Localities: N. J., Pa., Del., Md., D. C., N. C., S. C., Fla., Okl.,
 Texas, N. Mex.

Genus *Acholla* Stål

Haplotype *scr-spinosa* Wolff = *multispinosa* (De Geer)

- Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862.
 Stål, Hemip. Afr., iii, p. 47, 1865.
 Stål, Enum. Hemip., ii, pp. 67, 72, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 178, 1887.
 Champion, Biol. Centr. Am., Heter., ii, p. 289, 1899.
 Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 245, 1913.
 ||*Asera* Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862 (type *tabida* Stål).

797. *Acholla multispinosa* (De Geer)

- De Geer, Mémoires, iii, p. 348, pl. 35, fig. 10, 1773, *Cimex* (part).
 Goeze, Ent. Beytr., ii, p. 271, 1778, *Cimex*.
 Retzius, Genera et Spec. Ins., p. 87, 1783, *Cimex*.
 Stål, Enum. Hemip., ii, p. 72, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 428, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.

Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.

scarspinosa (Wolff), Icon. Cimic., iii, p. 124, fig. 118, 1802, *Reduvius*.

Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862.

[*Harpactor*.

subarmatus (Herrich-Schaeffer), Wanz. Ins., viii, p. 83, fig. 852, 1848.

Reduvius sp. Emmons, Nat. Hist. N. Y., Agr., v, p. 168, 1854.

stimulatrix (Emmons), Nat. Hist. N. Y., Agr., v, pl. 29, fig. 8, 1854, *Sinea*.

Localities: Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ill., Wis.,

Ia., Neb., Kan., Colo., Ariz.

798. *Acholla ampliata* Stål

Stål, Enum. Hemip., ii, p. 72, 1872.

Champion, Biol. Centr. Am., Heter., ii, p. 290, pl. 18, fig. 1, 1899.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.

Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.

Localities: N. Mex., Ariz. (Mexico.)

799. *Acholla tabida* (Stål)

Stål, Stet. Ent. Zeit., xxiii, pp. 446, 1862, *Asera*.

Stål, Enum. Hemip., ii, p. 72, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.

Champion, Biol. Centr. Am., Heter., ii, p. 290, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.

Localities: Calif. (Mexico.)

Genus *Sinea* Am. & Serv.

Logotype *multispinosa* Am. & Serv. = *diadema* (Fabr.)

Amoyot and Serville, Hémip., p. 375, 1843.

Stål, Stet. Ent. Zeit., xxii, p. 137, 1861; xxiii, p. 443, 1862.

Stål, Hemip. Afr., iii, p. 47, 1865.

Stål, Enum. Hemip., ii, p. 70, 1872.

Walker, Cat. Heter., vii, pp. 49, 54, 1873.

Provancher, Pet. Faune Ent. Can., iii, p. 180, 1887.

Champion, Biol. Centr. Am., Heter., ii, p. 291, 1899.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 2, 1901 (monograph).

Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 246, 1913.

800. *Sinea diadema* (Fabr.)

Fabricius, Genera Ins., p. 302, 1776, *Reduvius*.

Goeze, Ent. Beytr., ii, p. 252, 1778, *Cimex*.

Fabricius, Spec. Ins., ii, p. 382, 1781, *Reduvius*.

Fabricius, Mantissa Ins., ii, p. 313, 1787, *Reduvius*.

Gmelin, in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2196, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 206, 1794, *Reduvius*.

Fabricius, Syst. Rhyng., p. 286, 1803, *Zelus*.

Stål, Enum. Hemip., ii, p. 70, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876; iii, p. 429, 1877; iv, p.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 360, 1878.

[508, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 180, 1887.

- Van Duzee, Can. Ent., xxi, p. 5, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.
 Gillette and Baker, Hemip. Colo., p. 59, 1895.
 Caudell, Jl. N. Y. Ent. Soc., ix, p. 3, 1901.
 Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.
 Heidemann, Proc. Ent. Soc. Wash., xiii, p. 135, 1911 (egg).
 Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
 Parker, Ent. News, xxvii, p. 280, 1916 (habits).
multispinosus (De Geer), Mémoires, iii, p. 348, pl. 35, fig. 11, 1773, *Cimex*
 [(part, fig. 11 only refers to this species).
hispidus (Thunberg), Nova Ins. Spec., ii, p. 33, 1783, *Cimex*.
 Stål, Of. Vet. Akad. Forh., xxiii, p. 264, 1866, *Iranitia*. [*Cimex*.
setosus (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2144, 1788,
raptatorius (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 327, 1825; Compl.
 [Writ., ii, p. 249, *Reduvius*.
 Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 1,
 †*multispinosa* Amyot and Serville, Hemip., p. 375, 1843. [*Reduvius*.
 Stål, Stet. Ent. Zeit., xxii, p. 139, 1861; xxiii, p. 443, 1862.
 Stål, Hemip. Fabr., i, p. 97, 1868.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.
 Walker, Cat. Heter., viii, p. 139, 1873.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
 D. C., Va., N. C., S. C., Ga., Fla., Wis., Neb., Dak., Kan., Colo.,
 Utah, Okl., Idaho, Calif.

801. *Sinea undulata* Uhl.

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894.
 Caudell, Jl. N. Y. Ent. Soc., ix, p. 6, 1901.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
 Localities: Calif. (Mexico.)

802. *Sinea confusa* Caud.

- Caudell, Jl. N. Y. Ent. Soc., ix, p. 6, 1901.
 Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
 †*integra* Uhler, Check List, p. 23, 1886.
 †*undulata* Champion, Biol. Centr. Am., Heter., ii, p. 292, pl. 18, fig. 5, 1899.
 Localities: Texas, Ariz., Calif. (Mexico.)

803. *Sinea coronata* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.
 Stål, Enum. Hemip., ii, p. 71, 1872.
 Walker, Cat. Heter., viii, p. 138, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
 Champion, Biol. Centr. Am., Heter., ii, p. 292, pl. 18, figs. 6, 7, 1899.
 Caudell, Jl. N. Y., Ent. Soc., ix, p. 7, pl. 1, fig. 2, 1901.
 Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1908.
 Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
 Localities: Texas, Calif. (Mexico.)

804. *Sinea complexa* Caud.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 7, pl. 1, fig. 3, 1901.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.

Localities: Colo., Utah, Ariz., Calif.

805. *Sinea raptoria* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.

Stål, Enum. Hemip., ii, p. 71, 1872.

Walker, Cat. Heter., viii, p. 139, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.

Champion, Biol. Centr. Am., Heter., ii, p. 293, pl. 18, fig. 10, 1899.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 9, pl. 1, fig. 6, 1901.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.

denticulosa Stål, Enum. Hemip., ii, p. 71, 1872.

Localities: Ariz., Calif. (Neotropical.)

806. *Sinea sanguisuga* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.

Stål, Enum. Hemip., ii, p. 71, 1872.

Walker, Cat. Heter., viii, p. 139, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 294, pl. 18, fig. 12, 1899.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 9, pl. 1, figs. 7, 8, 1901.

Bergroth, Revue d'Ent., xxiv, p. 108, 1905.

Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.

Localities: Texas. (Neotropical.)

807. *Sinea spinipes* (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 82, fig. 851, 1848, *Harpactor*.

Stål, Enum. Hemip., ii, p. 71, 1872.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 10, 1901.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Bueno, Can. Ent., xlv, p. 213, 1912.

Fracker, Proc. Ia. Acad. Sci., xix, p. 247, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

Localities: N. Y., Ga., Fla., Kan., Colo.

808. *Sinea rileyi* Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 51, 1893.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 10, 1901.

Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Fracker, Proc. Ia. Acad. Sci., xix, p. 247, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.

Localities: N. C., Fla., Texas, Utah, Ariz., Calif.

809. *Sinea defecta* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862.

Stål, Enum. Hemip., ii, p. 71, 1872.

Walker, Cat. Heter., viii, pp. 139, 140, 1873.

- Champion, Biol. Centr. Am., Heter., ii, p. 295, 1899.
 Caudell, Jl. N. Y. Ent. Soc., ix, p. 11, 1901.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
 Fraeeker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
 Localities: Ariz. (Mexico.)

PHALANX *HEBRIFORMES* Oshanin*

- Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Ripicolae Amyot and Serville, Hémip., pp. xl, 293, 1843. [family).
Hebroidae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910 (super-
Mesoreliiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 61, 1910
 [(Phalynx).
Nacogeiformes Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6,
 [pp. 23, 49, 1912 (Phalynx).

Family **HEBRIDAE** (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xl, 293, 1843, *Hcbrides*.
 Fieber, Genera Hydroc., p. 9, 1851, *Hcbroidea*.
 Dohrn, Cat. Hemip., p. 41, 1859, *Hcbridae*.
 Flor, Rhyn. Livl., i, p. 371, 1860, *Hebroidae*.
 Fieber, Europ. Hemip., pp. 23, 32, 104, 1861, *Hebridae*.
 Douglas and Scott, Brit. Hemip., p. 25, 1865, *Hebridae*.
 Walker, Cat. Heter., viii, p. 159, 1873.
 Berg, Hemip. Argent., p. 116, 1884.
 Puton, Cat. Hémip. Palae., p. 36, 1896, *Hebrides*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 51, 1896.
 Champion, Biol. Centr. Am., Heter., ii, p. 117, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 167, 1903.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 482, 1908.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910.
 Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Nacogedae Kirkaldy, Fauna Hawaii, iii, p. 168, 1902.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 214, 1908.
 Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910. [1912.
 Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 23, 49, 55,

Genus **Hebrus** Curt.

Haplotype *pusillus* (Fall.)

- Curtis, Ent. Mag., i, p. 198, 1833.
 Westwood, Ann. Soc. Ent. Fr., Ser. 1, iii, p. 652, 1834.
 Burmeister, Handb. d. Ent., ii, p. 214, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 296, 1835.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 97, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840.
 Amyot and Serville, Hémip., p. 293, 1843.
 Spinola, Tavola Sinot., p. 44, 1850.
 Flor, Rhyn. Livl., i, p. 372, 1860.

* Dr. Bergroth writes me that Horvath now finds this phalanx pertains to the Hydrobiotica. It may follow the Veliidae.

- Fieber, Europ. Hemip., pp. 32, 104, 1861.
 Douglas and Scott, Brit. Hemip., p. 263, 1865.
 Walker, Cat. Heter., viii, p. 159, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 117, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 167, 1903.
 Oshanin, Verz. Palæ. Hemip., i, p. 482, 1908.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911.
 Oshanin, Kat. Palæ. Hemip., p. 56, 1912.

†*Nacogaeus* Kirkaldy, Entomologist, p. 241, 1900.

Bergroth, Wien. Ent. Zeit., xxxi, p. 164, 1912.

810. *Hebrus burmeisteri* L. & S.

- Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 51, 1896.
 Kirkaldy, Proc. Ent. Soc. Wash., x, p. 214, 1908, *Nacogaeus*.
 Parshley, Ent. News, xxvii, p. 105.

†*pusillus* Burmeister, Handb. d. Ent., ii, p. 214, 1835.

Van Duzee, Psyche, v, p. 240, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.

Localities: N. H., Mass., N. Y., Pa., Ill.

811. *Hebrus sobrinus* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 452, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330 (as new).
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 288, 1894.
 Gillette and Baker, Hemip. Colo., p. 61, 1895.

Localities: Colo., Ariz., Calif.

812. *Hebrus concinnus* Uhl.

- Uhler, Proc. Zool. Soc. Lond. for 1894, p. 221.
 Gillette and Baker, Hemip. Colo., p. 61, 1895.
 Champion, Biol. Centr. Am., Heter., ii, p. 121, 1898.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908, *Nacogaeus*.
 Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910, *Nacogaeus*.
 Bueno, Can. Ent., xlv, p. 212, 1912, *Nacogaeus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Nacogaeus*.
 Localities: Quebec, Ont., N. Y., N. J., Pa., Md., Fla., Ill., Colo.,
 Calif., Wash. (Neotropical.)

813. *Hebrus consolidus* Uhl.

- Uhler, Proc. Zool. Soc. Lond. for 1894, p. 222.
 Champion, Biol. Centr. Am., Heter., ii, p. 119, pl. 8, fig. 4, 1898.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Localities: Fla. (Neotropical.)

Family MESOVELIIDAE D. & S.

- Douglas and Scott, Ent. Mo. Mag., iv, p. 3, 1867, Tribe.
 Puton, Synop. Heter. Fr., i, p. 145, 1879, Tribe *Mesovelini*.
 Reuter, Ent. Tidskr., iii, p. 165, 1882, Subfam. *Mesovelina*.
 Puton, Cat. Hémipt. Palæ., edn. 3, p. 36, 1886, Tribe *Mesovelini*.
 Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 53, 1896, Subfamily.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903, Subfam. *Mesoveliinar*.

- Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906, Subfam. *Mesoveliinae*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 67, 1910, *Mesoveliadae*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 23, 1912, *Meso-*
 Oshanin, Kat. Palae. Hemip., p. 56, 1912. [*veliadae*.]

Genus **Mesovelgia** M. & R.

Type *furcata* Muls. & Rey

- Mulsant and Rey, Ann. Soc. Linn. Lyons, 1852, p. 138.
 Fieber, Europ. Hemip., pp. 33, 105, 1861.
 Douglas and Scott, Ent. Mo. Mag., iv, p. 4, 1867.
 Puton, Synop. Heter. Fr., i, p. 146, 1879.
 Champion, Biol. Centr. Am., Heter., ii, p. 123, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
 Oshanin, Verz. Palae. Hemip., i, p. 484, 1908. [Jak.)
Fieberia Jakowlef, Trudy Russk. Ent., vii, p. 32, 1874. (Type *lacustris*

814. **Mesovelgia mulsanti** White

- White, Trans. Ent. Soc. Lond. for 1879, p. 268.
 Champion, Biol. Centr. Am., Heter., ii, p. 123, pl. 8, figs. 10, 11, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
bisignata Uhler, Stand. Nat. Hist., ii, p. 274, fig. 324, 1884.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 217.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 289, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
 Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 505, 1899.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910.
?orientalis Kirkaldy, Ann. Mus. Civ. Genoa, xl, p. 808, 1901.
 Localities: Mass., N. Y., N. J., Md., N. C., Fla., Ohio, Ill., Kan.,
 Texas.

PHALANX NABIFORMES Reut.

- Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 3, p. 72, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.
 Oshanin, Kat. Palae. Hemip., p. 54, 1912.

Family **NABIDAE** (Costa)

- Costa, Cimic. Neap., Cent., iii, p. 66, 1852, Subfam. *Nabini*.
 Stål, Of. Vet. Akad. Forh., xv, p. 247, 1858, Subfam. *Nabides*.
 Dohrn, Cat. Hemip., p. 51, 1859.
 Fieber, Europ. Hemip., pp. 25, 57, 1861.
 Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862, *Nabida*.
 Stål, Hemip. Afr., iii, p. 37, 1865, *Nabida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 674, 1870, *Nabina*.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 68, 1872.

- Stål, Enum. Hemip., iii, p. 106, 1873.
 Uhler, Check List., p. 23, 1886.
 Puton, Cat. Hémip. Palae., edn. 3, p. 40, 1886, Tribe *Nabini*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 202, 1896 (as subfamily).
 Champion, Biol. Centr. Am., Heter., ii, p. 297, 1899.
 Kirkaldy, Wien. Ent. Zeit., xx, p. 219, 1901.
 Kirkaldy, Fauna Hawai., iii, p. 153, 1902, Subfam. *Nabinae*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 389, 1904, Subfam. *Nabinae*.
 Kirkaldy, Proc. Hawai. Ent. Soc., i, p. 155, 1907.
 Kirkaldy, Can. Ent., xl, p. 360, 1908.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 87, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 563, 1908.
 Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912.
 Banks, Cat. Neare. Hemip., p. 21, 1910.
 Oshanin, Kat. Palae. Hemip., p. 54, 1912.

Subfamily PROSTEMMINAE (Reut.)

- Reuter, Revue d'Ent., ix, p. 289, 1890, *Prostemmina*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 391, 1904.
 Oshanin, Verz. Palae. Hemip., i, p. 564, 1908.
 Oshanin, Kat. Palae. Hemip., p. 54, 1912.
Nabina Stål, Enum. Hemip., iii, pp. 106, 107, 1873.
 Uhler, Check List., p. 23, 1886.
 Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.

Genus *Pagasa* Stål

Haplotype *pallidiceps* Stål

- Stål, Rio Jan. Hemip., ii, p. 60, 1862.
 Stål, Hemip. Afr., iii, p. 38, 1865.
 Stål, Enum. Hemip., iii, pp. 107, 108, 1873.
 Champion, Biol. Centr. Am., Heter., ii, p. 297, 1899.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 88, 1908.
 Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 25, 1909.

Subgenus *Pagasa* Stål

- Reuter and Poppius, Act Soc. Sci. Fenn., xxxvii, No. 2, p. 25, 1909.

815. *Pagasa pallipes* Stål

- Stål, Enum. Hemip., iii, p. 108, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893.
 Champion, Biol. Centr. Am., Heter., ii, p. 299, pl. 18, fig. 18, 1899.
 Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 29, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Localities: Fla., Kan., Texas, Utah.

Subgenus *Lampropagasa* R. & P.

Orthotype *fusca* Stein

- Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 30, 1909.

816. *Pagasa fusca* (Stein)

Stein, Berl. Ent. Zeit., i, p. 90, 1857, *Prostemma*.

Reuter, Revue d'Ent., ix, p. 291, 1890.

Champion, Biol. Centr. Am., Heter., ii, p. 299, pl. 18, fig. 17, 1899.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.

Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 31, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

Parshley, Psyche, xxi, p. 143, 1914.

nitida Stål, Enum. Hemip., iii, p. 108, 1873.

Berg, Hemip. Argent., Add., p. 105, 1884.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.

Localities: Me., N. Y., N. J., Pa., Wis., Colo., Manitoba, Br. Col.

Genus *Phorticus* Stål

Logotype *viduus* Stål

Stål, Rio Jan. Hemip., i, p. 69, 1860.

Stål, Enum. Hemip., iii, pp. 107, 109, 1873.

Reuter, Revue d'Ent., ix, p. 290, 1890.

Reuter, Wien. Ent. Zeit., xii, p. 317, 1893.

Champion, Biol. Centr. Am., Heter., ii, p. 300, 1899.

Distant, Fauna Br. Ind., Rhyn., ii, p. 395, 1904 (names *viduus* type).

Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 49, 1909.

817. *Phorticus collaris* Stål

Stål, Enum. Hemip., iii, p. 109, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 301, pl. 18, fig. 21, 1899.

Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 54, 1909.

Localities: Texas. (Mexico.)

Subfamily NABINAE (Reut.)

Reuter, Revue d'Ent., ix, p. 293, 1890, *Nabina*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 397, 1904, Div. *Nabidinaria*.

Oshanin, Verz. Palae. Hemip., i, p. 568, 1908.

Oshanin, Kat. Palae., Hemip., p. 55, 1912.

Coriscina Stål, Enum. Hemip., iii, pp. 106, 110, 1873.

Uhler, Check List, p. 23, 1886.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Coriscidae*.

Arachnocorina Reuter, Revue d'Ent., ix, p. 292, 1890.

Reduviolina Reuter, Mém. Soc. Ent. Belg., xv, p. 129, 1908.

Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.

TRIBE NABINI Van D.

Van Duzee, Check List Hemip., p. 32, 1916.

Reduviolaria Reuter (Division).

[I cannot find that this division was ever established, but it is inferred in the following: Reuter, Ann. Soc. Ent. Belg., liii, p. 423, 1909.]

Genus *Nabis* Latr.

Logotype *vagans* Fabr. = *ferus* (Linn.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 248, 1802 (for *guttula* and *vagans*).

Latreille, Hist. Nat. Crust. Ins., xii, p. 255, 1804 (gives *apterus* and *guttula*

Latreille, Genera Crust. Ins., iii, p. 127, 1807.

[as examples].

- Latreille, Consid. Génl., pp. 256, 433, 1810 (names *apterus* type; invalid).
 Laporte, Essai Classif. Syst. Hémiép., p. 11, 1832 (cites *apterus* as type).
 Hahn, Wanz. Ins., iii, p. 30, 1835.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.
 Burmeister, Handb. d. Ent., ii, pp. 241, 399, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 322, pl. 25, fig. 1, 1835 (subgen. of *Reduvius*).
 Spinola, Essai sur les Hémiép., p. 105, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hémiép., p. 107, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *vagans* Amyot and Serville, Hémiép., p. 330, 1843. [Fabr. type, valid).
 Herrich-Schaeffer, Wanz. Ins., viii, p. 95, 1853.
 Flor, Rhyn. Livl., i, p. 690, 1860; ii, p. 618, 1861.
 Fieber, Europ. Hemip., pp. 43, 159, 1861.
 Stål, Hemip. Afr., iii, pp. 38, 41, 1865.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 60, 80, 1872 (European forms).
 Walker, Cat. Heter., vii, p. 139, 1873.
 Reuter, Revue d'Ent., ix, p. 293, 1890 (Monograph).
 Lethierry and Severin, Cat. Génl. Hémiép., iii, p. 207, 1896.
 Champion, Biol. Centr. Am., Heter., ii, p. 301, 1899.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 399, 1904 (gives *apterus* Fabr. as type).
 Oshanin, Verz. Palae. Hemip., i, p. 568, 1908.
 Oshanin, Kat. Palae. Hemip., p. 55, 1912.
 Van Duzee, Can. Ent., xvi, p. 385, 1914.
 †*Miris* Leach, Brewster's Edinbg. Encey., ix, p. , 1815; Am. edn., viii, [p. 711, 1832 (for *vagans* Wolf).
 **Aptus* Hahn, Wanz. Ins., i, p. 35, 1831.
Reduviolus Kirby, Richardson's Fauna Bor. Am., iv, p. 279, 1837. (Haplo-Kirkaldy, Entomologist, xxxii, p. 242, 1900. [type *inscriptus*).
 Reuter, Mém. Soc. Ent. Belg., xv, p. 93, 1908 (Systematic).
 Banks, Cat. Neare. Hemip., p. 22, 1910.
 †*Coriscus* Stål, Enum. Hemip., iii, p. 112, 1873.
 Berg, Hemip. Argent., p. 143, 1879.
 Uhler, Check List., p. 23, 1886.

Subgenus *Nabacula* Kirby

Haplotype *subcoleoptratus* Kirby

- Kirby, Richardson's Fauna Bor. Am., iv, p. 281, 1837.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 80, 1872.
 Stål, Enum. Hemip., iii, p. 112, 1873.
 Reuter, Revue d'Ent., ix, p. 295, 1890.

518. *Nabis subcoleoptratus* Kirby

- Kirby, Richardson's Fauna Bor. Am., iv, p. 282, 1837; Bethune's reprint, p. Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872. [138, *Nabacula*.
 Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 80, 81, 1872.
 Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876; iv, p. 508, 1878, *Coriscus*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 423, 1878, *Coriscus*.
 Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Nabacula*.
 Provancher, Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus*.
 Van Duzee, Bul. Bnf. Soc. Nat. Sci., v, p. 182, 1894, *Coriscus*.
 Kirkaldy, Wien. Ent. Zeit., xx, p. 222, 1901, *Reduviolus*.

- Distant, Ann. Mag. Nat. Hist., Ser. 7, xi, p. 367, 1903.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 98, 1908, *Reduviolus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910, *Reduviolus*.
 Van Duzee, Can. Ent., xlv, p. 323, 1912, *Reduviolus*.
 canadensis Prov. Nat. Can., i, p. 211, 1869.
 [*marginatus* Uhl. MS] Riley, 2d Rept. Nox. Ins. Mo., p. 32, 1870. [tion).
 [*xanthopus* MSS] Walker, Cat. Heter., vii, p. 143, 1873 (without descrip-
 †*propinquus* Provancher, Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus*.
 Localities: No. Sco., Quebec, Ont., Me., N. H., N. Y., N. J., Pa.,
 Ill., Wis., Dak., Neb., Kan., Colo., Texas.

Subgenus **Hoplistoscelis** Reut.

Logotype *sericans* Reut. = *nigriventris* Stål

- Reuter, Revue d'Ent., ix, pp. 294, 295, 1890.
 Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 99, 1908.

819. **Nabis nigriventris** Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862.
 Stål, Enum. Hemip., iii, p. 114, 1873, *Coriscus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876, *Coriscus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 302, pl. 18, fig. 25, 1899.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 99, 1908, *Reduviolus*.
 sericans Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 83, 1872.
 Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.
 Reuter, Revue d'Ent., ix, p. 296, 1890.
 Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Coriscus*.
 †*roripes* Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706, *Coriscus*.
 Localities: Texas, N. Mex., Colo. (Neotropical.)

820. **Nabis sordidus** Reut.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 85, 1872.
 Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.
 Reuter, Revue d'Ent., ix, p. 299, 1890.
 Champion, Biol. Centr. Am., Heter., ii, p. 203, pl. 18, figs. 26, 27, 28, 1899.
 Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 25, 1907.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 100, 1908, *Reduviolus*.
 Bueno, Can. Ent., xlv, p. 212, 1912, *Reduviolus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 pallescens Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 85, 1872.
 Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.
 Reuter, Revue d'Ent., ix, p. 298, 1890.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894, *Coriscus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
 †*crassipes* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus*.
 †*sericans* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus*.
 Localities: N. J., Pa., Md., D. C., Fla., La., Texas, Wis.

821. *Nabis crassipes* Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 83, 1872.

Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.

Reuter, Revue d'Ent., ix, p. 297, 1890.

Champion, Biol. Centr. Am., Heter., ii, p. 302, pl. 18, figs. 22, 23, 24, 1899.

Localities: Ga. Texas, Calif.

822. *Nabis heidemanni* Reut.

Reuter, Mém. Soc. Ent. Belg., xv, p. 100, 1908, *Reduviolus*.

Locality: Calif.

Subgenus *Lasiomerus* Reut.

Orthotype *annulatus* Reut.

Reuter, Revue d'Ent., ix, pp. 294, 305, 1890.

Reuter, Mém. Soc. Ent. Belg., ix, p. 102, 1908. [*spinicrus* Reut.]

Acanthonabis Reuter, Revue d'Ent., ix, pp. 294, 305, 1890. (Haplotype

823. *Nabis annulatus* Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 86, 1872.

Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.

Reuter, Revue d'Ent., ix, p. 305, 1890 (noted as type).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus*.

Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910, *Reduviolus*.

Localities: Ont., N. Y., N. J., Pa., Ohio, Ill.

824. *Nabis spinicrus* Reut.

Reuter, Revue d'Ent., ix, p. 305, 1890.

Reuter, Mém. Soc. Ent. Belg., xv, p. 103, 1908, *Reduviolus*.

scapsiformis Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706, *Coriscus*.

signatus Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus*. [1900.]

Champion, Biol. Centr. Am., Heter., ii, p. 304, pl. 18, figs. 31, 32, 33,

Localities: "S. St." (Neotropical.)

Subgenus *Dolichonabis* Reut.

Logotype *limbatus* Dahlb.

Reuter, Mém. Soc. Ent. Belg., xv, p. 104, 1908.

825. *Nabis propinquus* Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 87, 1872.

Reuter, Revue d'Ent., ix, p. 308, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus*.

Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus*.

Reuter, Mém. Soc. Ent. Belg., xv, p. 105, 1908, *Reduviolus*.

vicarius Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 87, 1872 (male).

elongatus Hart, Bul. Ill. St. Lab. Nat. Hist., vii, pp. 262, errata, 1907.

Localities: Quebec, Ont., N. Y., Ohio, Ill., Wis.

826. *Nabis limbatus* Dahlb.

Dahlbom, Kong. Vet. Akad. Handl., , p. 227, 1850.

Flor. Rhyn. Livl., i, p. 695, 1860.

Douglas and Scott, Brit. Hemip., p. 551, 1865.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 70, 87, 1872.

Reuter, Mém. Soc. Ent. Belg., xv, p. 107, 1908, *Reduviolus*.

†*vicarius* Van Duzee, 20th Rept. N. Y. St. Ent. for 1905, p. 550, 1905,

Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Coriscus*. [Coriscus.

Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus*.

Localities: Quebec, Ont., N. Y., Colo. (Palaearectic.)

Subgenus **Nabis** Latr.

Reuter, Revue d'Ent., ix, pp. 294, 307, 1890.

†*Coriscus* Stål, Enum. Hemip., iii, p. 113, 1873 (as subgenus).

†*Reduviolus* Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908 (as subgenus).

827. **Nabis flavomarginatus** Scholtz

Scholtz, Arb. Schles. Ges. Nat. Kultur., p. 114, 1846.

Flor, Rhyn. Livl., i, p. 696, 1860.

Fieber, Europ. Hemip., p. 161, 1861.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 71, 88, 1872.

Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908.

dorsatus Dahlbom, Kong. Vet. Akad. Handl., , p. 227, 1850.

nervosus Boheman, Of. Vet. Akad. Forh., ix, p. 77, 1852.

thesigus Kolenati, Melet. Ent., iv, p. 258, 1856.

Localities: "Greenland," Canada. (Palaearectic.)

a. var. **sibericus** (Reut.)

Reuter, Pet. Nouv. Ent., ii, p. 545, 1875, *Coriscus*.

Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 32, 1878, *Coriscus*.

Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908, *Reduviolus*.

Localities: Greenland, Alaska. (Siberia.)

b. var. **vanduzeei** (Kirk.)

Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901, *Reduviolus*.

Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908, *Reduviolus*.

Localities: Colo., Wash.

828. **Nabis capsiformis** Germ.

Germar, Silberm. Revue Ent., v, p. 132, 1837.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 88, 1872.

Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.

Puton, Synop. Heter. Fr., iii, p. 187, 1880.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus*.

Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901, *Reduviolus*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 300, fig. 256, 1904.

Reuter, Mém. Soc. Ent. Belg., xv, p. 114, 1908, *Reduviolus*.

Van Duzee, Can. Ent., xli, p. 127, 1909, *Reduviolus* (occurrence).

Reuter, Of. Finska Vet. Soc. Forh., lv, Afd. A, No. 14, p. 77, 1913, *Reduviolus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Reduviolus*.

angusta Spinola, Essai sur les Hémipt., p. 107, 1837 (1840). [p. 79, 1838.

||*angustus* Brullé, Anim. Art. rec. aux Canar. par Webb et Berth., Hemip.,

longipennis Costa, Atti Inst. Natl. for Napol. for 1848, p. 750.

Fieber, Europ. Hemip., p. 161, 1861.

caffra Stål, Of. Vet. Akad. Forh., xii, p. 39, 1855.

Stål, Hemip. Afr., iii, p. 41, 1865.

elongatus Meyer-Dur, Mitth. Schweiz. Ent. Ges., iii, p. 170, 1870.

Berg, Hemip. Argent., p. 144, 1879, *Coriscus*.

kinbergi Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 90, 1872.

sandersi White, Ent. Mo. Mag., xv, p. 159, 1878.

brullei Lethierry and Severin, Cat. Génl. Hémip., iii, p. 208, 1896.

Localities: N. C., S. C., Fla., Miss., Texas. (Bermudas, Neotropical, Europe, Asia, Africa, Australia.)

829. *Nabis ferus* (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 449, 1758, *Cimex*.

Linnaeus, Fauna Suec., edn. 2, p. 256, No. 962, 1761, *Cimex*.

Linnaeus, Syst. Nat., edn. 12, ii, p. 731, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 726, 1775, *Cimex*.

Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris*.

Fabricius, Syst. Rhyng., p. 255, 1803, *Miris*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris*.

Fallén, Monog. Cimic. Suec., p. 112, 1807, *Miris*.

Zetterstedt, Fauna Lapp., p. 503, 1828, *Miris*.

Fallén, Hemip. Suec., Cimic., p. 133, 1829, *Miris*.

Hahn, Wanz. Ins., iii, p. 31, fig. 252, 1835.

Herrich-Schaeffer, Nomen. Ent., i, pp. 62, 99, 1835.

Zetterstedt, Ins. Lapp., column 282, 1840, *Miris*.

Rambur, Fauna Andul., p. 170, 1842.

Amyot and Serville, Hémip., p. 332, 1843.

Flor. Rhyng. Livl., i, p. 698, 1860.

Fieber, Europ. Hemip., p. 161, 1861.

Douglas and Scott, Brit. Hemip., p. 555, 1865.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 73, 90, 1872.

Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876; iii, p. 428, 1877, *Coriscus*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Coriscus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 508, 1878, *Coriscus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878, *Coriscus*.

Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Coriscus*.

Provancher, Pet. Faune Ent. Can., iii, p. 176, 1887, *Coriscus*.

Reuter, Revue Synon., p. 343, No. 310, 1888.

Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Coriscus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894, *Coriscus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus*.

Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900.

Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.

Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus*.

Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910, *Reduviolus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914. [name].

Cimex No. 48. Geoffroy, Hist. Abreg. des Ins., i, p. 458, 1762 (without *tripunctatus* (Muller), Zool. Danica, p. 107, 1776, *Cimex*).

scutello-maculatus (Goeze), Ent. Beytr., ii, p. 271, 1778, *Cimex*.

marginato-striatus (Goeze), Ent. Beytr., ii, p. 279, 1778, *Cimex*.

sponsalis Geoffroy in Foureroy, Ent. Paris., i, p. 210, 1785, *Cimex*.

vagans (Fabricius), Mantissa Ins., ii, p. 307, 1787, *Cimex*.

Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris*.

Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.

Fabricius, Syst. Rhyng., p. 255, 1803, *Miris*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris*.

Burmeister, Handb. d. Ent., ii, p. 242, 1835.

[of *Nabis*].

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (as type

- triops* (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2179, 1788, [Cimcr.]
scxstriatus (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2182, [1788, Cimcr.]
denigratus (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2194,
hcraldicus (Schränk), Fauna Boica, p. 83, 1801, Cimcr. [Cimcr.]
crassipes (Schränk), Fauna Boica, p. 99, 1801, Cimcr.
pallens (Panzer) in Schaeffer, Icones Ins., p. 163, 1804, Reduvius.
cinereus Olivier, Encyc. Meth., vii, p. 140, 1811.

Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., Pa.,
 Md., N. C., Ga., Mich., Wis., Neb., Dak., Kan., Colo., Utah,
 Texas, N. Mex., Ariz., Calif. (Palearctic, Mexico.)

a. var. **punctatus** Costa

- Costa, Cimic. Reg. Neap., Cent., ii, p. 14, 1843.
 Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900, *Coriscus*.
 Oshanin, Verz. Palae. Hemip., i, p. 576, 1908.
lagilis Spinola, Essai sur les Hemip., p. 106, 1837.
 Localities: "Nearectic." (Europe, Mexico, Guatemala.)

[**Nabis perennis** Fitch MS]

- Walker, Cat. Heter., vii, p. 143, 1873.
 Locality: N. Y.

830. **Nabis roseipennis** Reut.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 89, 1872.
 Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.
 Reuter, Revue d'Ent., ix, p. 308, 1890.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 118, 1908, *Reduviolus*.
punctipes Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 89, 1872.
 Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876, *Coriscus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus*.
 Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus*.
inscriptus (Van Duzee), Can. Ent., xxi, p. 5, 1889, *Coriscus*. [olus.]
rudis Uhler MS], Reuter, Mém. Soc. Ent. Belg., xv, p. 118, 1908, *Reduvi-*
 Localities: Ont., N. Y., N. J., Pa., Del., D. C., Ohio, Wis., Ia.,
 Neb., Colo.

831. **Nabis rufusculus** Reut.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 92, 1872.
 Stål Enum. Hemip., iii, p. 113, 1873, *Coriscus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus*.
 Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Coriscus*.
 Reuter, Mém. Soc. Ent. Belg., xv, p. 119, 1908, *Reduviolus*.
assimilis (Uhler), Proc. Bost. Soc. Nat. Hist., xix, p. 422, 1878, *Coriscus*.
chevkeanus (Kirkaldy), Wien. Ent. Zeit., xx, p. 224, 1901, *Reduviolus*.
 [(For *chevkeanus*.)]
 Localities: Ont., Me., Mass., N. Y., Md., D. C., Va., N. C., Ill.,
 Wis., Colo.

832. **Nabis inscriptus** (Kirby)

- Kirby in Richardson's Fauna Bor. Am., iv, p. 280, pl. 6, fig. 7, 1857, *Reduvi-*
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872. [olus.]

- Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Coriscus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Coriscus*.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Coriscus*.
 Renter, Mém. Soc. Ent. Belg., xv, p. 120, 1908, *Reduviolus*.
 Oshanin, Verz. Palae. Hemip., i, p. 578, 1908.
 Renter, Of. Finska Vet. Soc. Forh., lv, Afd. A. No. 14, p. 82, 1913, *Reduviolus*.
horeellus Renter, Meddel. Of. Soc. p. Fauna Flora Fenn., xi, p. 165, 1884.
 Localities: Ont., Me., N. Y., Br. Col.

833. *Nabis kalmii* Rent.

- Renter, Of. Vet. Akad. Forh., xxix, No. 6, p. 91, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.
 Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus*.
 Kirkaldy, Wien. Ent. Zeit., xx, p. 225, 1901, *Reduviolus*.
 Renter, Mém. Soc. Ent. Belg., xv, p. 119, 1908, *Reduviolus*.
 Localities: Wis., Mo., Colo., Neb.

Genus *Metatropiphorus*

Haplotype *belfragii* Rent.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 93, 1872.
 Stål, Enum. Hemip., iii, pp. 110, 111, 1873.

834. *Metatropiphorus belfragii* Rent.

- Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 93, 1872.
 Stål, Enum. Hemip., iii, p. 111, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 95, 1876.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 25, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Localities: Fla., Texas. (West Indies.)

TRIBE *GORPINI* (Rent.)

- Reuter, Ann. Soc. Ent. Belg., liii, p. 423, 1909, Div. *Gorparia*.

Genus *Carthasis* Champ.

Haplotype *rufonotatus* Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900.
 Renter, Mém. Soc. Ent. Belg., xv, p. 97, 1908.
Orthometrops Uhler, Proc. Ent. Soc. Wash., iv, p. 508, 1901 (type *decorata*).

835. *Carthasis decoratus* (Uhler)

- Uhler, Proc. Ent. Soc. Wash., iv, p. 509, 1901, *Orthometrops*.
contrarius Renter, Mém. Soc. Ent. Belg., xv, p. 97, 1908.
 Localities: N. Y., N. J., Pa., Md.

SUPERFAMILY *CIMICOIDEAE* Rent.

- Renter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
 Renter, Of. Finska Vet. Soc. Forh., liv, Afd. A. No. 6, pp. 19, 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Miridae Kirkaldy, Fauna Hawai., iii, p. 125, 1902.

PHALANX CIMICIFORMES Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 70, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 56, 1912.

Acanthiidae Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871 (Family).

Cimicidae, Stål, Enum. Hemip., iii, p. 101, 1873 (Family).

Anthocoridae Reuter, Monog. Anthroc., p. 3, 1884.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 237, 1896 (as Family).

Family CIMICIDAE (Latr.)

Latreille, Hist. Nat. Crust. Ins., xii, p. 235, 1804, *Cimicides* (part).

Leach, Brewster's Edinbg. Encyc., ix, p. 122, 1815, *Cimicides*, I, *Cimicida*.

Laporte, Essai Classif. Syst. Hémip., p. 51, 1832, *Cimicites* (part).

Spinola, Essai sur les Hémip., p. 170, 1837, *Cimicites*.

Westwood, Intr. Mod. Classif. Ins., ii, p. 474, Synop., p. 120, 1840, *Cimicidae*.

Spinola, Tavola Sinot., pp. 38, 39, 1850, Subfam. *Cimicoideae*.

Fieber, Genera Hydroc., p. 9, 1851, Family *Cimicidea*.

Stål, Enum. Hemip., iii, p. 103, 1873, Subfam. *Cimicina*.

Reuter, Monog. Anthroc., p. 3, 1884, *Cimicidac*.

Uhler, Stand. Nat. Hist., ii, p. 285, 1884.

Puton, Cat. Hémip. Palae., edu. 3, p. 42, 1886, Tribe *Cimicini*.

Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 235, 1896.

Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.

Distant, Fauna Br. Ind., Rhyn., ii, p. 410, 1904.

Oshanin, Verz. Palae. Hemip., i, p. 609, 1909.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 2, 71, 1910.

Banks, Cat. Neare. Hemip., p. 25, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 17, 1911.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 53, 1912.

Oshanin, Kat. Palae. Hemip., p. 56, 1912.

Reuter, Zeit. Wissens., Insek., ix, p. 251, 1913.

Acanthilles Latreille, Genera Crust. Ins., iii, p. 135, 1807 (part).

Lceticoles Amyot and Serville, Hémip., pp. xli, 309, 1843 (as tribe).

Acanthiidae Costa, Cimic. Neap., Cent., iii, p. 67, 1852.

Dohrn, Cat. Hemip., p. 44, 1859.

Fieber, Europ. Hemip., p. 24, 1860, *Acanthiadae*.

Stål, Hemip. Afr., iii, p. 24, 1865.

Cacodmidae Kirkaldy, Bul. Liverp. Mus., ii, p. 45, 1899.

Kirkaldy, Fauna Hawai., iii, p. 129, 1902, *Cacodminae*.

Clinocoridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.

Bueno, Ent. News, xviii, p. 433, 1907.

Kirkaldy, Can. Ent., xl, p. 361, 1908.

Reuter, Ent. Mo. Mag., xix, p. 27, 1908, *Clinocorina*.

Subfamily CIMICINAE Van D.

Van Duzee, Check List Hemip., p. 33, 1916.

Cacodminae Jordan and Rothschilds, Novit. Zool., xix, p. 352, 1912.

Reuter, Zeit. f. Wissens. Insek., ix, p. 254, 1913.

Genus *Cimex* Linn.Logotype *lectularius* Linn.

- Linnaeus, Syst. Nat., edn. 10, i, p. 441, 1758 (Sec. "A," *Apteri*).
 Geoffroy, Hist. Abreg. Ins., i, p. 430, 1762 (Fam. 1, *Apterus*).
 Scopoli, Ent. Carn., p. 120, 1763 (Sec. 2, *Cucullati*).
 Brunnich, Entomologia, p. 82, 1764 (*lectularius* only species).
 Goeze, Ent. Beytr., ii, p. 177, 1778 (Sec. 1, for *lectularius*, full bibliography).
 Fourcroy, Ent. Paris., p. 194, 1785 (Family 1, *lectularius* first species).
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2123, 1788.
 Thunberg, Genera Ins., edn. 2, p. 33, 1791 (no species mentioned).
 Olivier, Eneye. Meth., iv, p. 25, 1789.
 Lamarck, Syst. Anim. s. Vert., p. 293, 1801 (names *lectularius* as type).
 Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (*lectularius* only sp.).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 254, 1804.
 Latreille, Genera Crust. Ins., iii, p. 136, 1807.
 Latreille, Consid. Génl., pp. 257, 433, 1810 (names *lectularius* type).
 Leach, Brewster's Edinbg. Eneye., ix, p. 122, 1915 (for *lectularius*).
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 201, 1829.
 Laporte, Essai Classif. Syst. Hémiép., p. 51, 1832 (names *lectularius* type).
 Hahn, Wanz. Ins., iii, p. 17, 1835.
 Herrieh-Schaeffer, Nomen. Ent., i, pp. 37, 61, 97, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 330, 1835.
 Spinola, Essai sur les Hémiép., p. 170, 1837.
 Blanchard, Hist. des Ins., Hémiép., p. 109, 1840. [*larius* type].
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *lectu-*
 Guérin, Icon. Règne Animal., p. 350, (*lectularius* only species).
 Spinola, Tavola Sinot., p. 39, 1850.
 Stål, Enum. Hemip., iii, pp. 103, 104, 1873.
 Lethierry and Severin, Cat. Génl. Hémiép., iii, p. 235, 1896.
 Blanford, Nature, lxix, p. 200, 1903; p. 464, 1904.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 410, 1904.
 Horvath, Ann. Mus. Natl. Hung., x, p. 257, 258, 1912.
 Reuter, Zeit. Wissens. Insekt., ix, p. 305, 1913.
 Van Duzee, Can. Ent., xlv, p. 385, 1914.
Acanthia Fabricius, Syst. Ent., p. 693, 1775 (*lectularius* first species).
 Fabricius, Ent. Syst., iv, p. 67, No. 1, 1794.
 Walckenaer, Faune Paris., ii, p. 336, 1802.
 Fabricius, Syst. Rhyn., p. 112, 1803 (indicates *lectularius* as type).
 Fallén, Monog. Cimic. Suec., p. 27, 1807.
 Wolff, Icon. Cimic., v, p. vii, 1811.
 Fallén, Hemip. Suec., Cimic., p. 140, 1829.
 Burmeister, Handb. d. Ent., ii, p. 252, 1835.
 Amyot and Serville, Hémiép., p. 310, 1843.
 Flor, Rhyn. Livl., i, p. 671, 1860.
 Fieber, Europ. Hemip., pp. 37, 135, 1861.
 Stål, Hemip. Afr., ii, p. 24, 1865.
 Douglas, Ent. Mo. Mag., xix, p. 202, 1883.
Clinocoris Fallén, Hemip. Suec., Cimic., p. 141, 1829 (suggested as a
 Kirkaldy, Nature, lxix, p. 464, 1904. [better name]).
 Kirkaldy, Entomologist, xxxviii, p. 77, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.
 Reuter, Ent. Mo. Mag., xix, p. 27, 1908.

Klinophilos Kirkaldy, Entomologist, xxxii, p. 219, 1899 (type *lectularius*).
Kirkaldy, Fauna Hawai., iii, p. 129, 1902.

836. *Cimex lectularius* Linn.

- Linnaeus, Syst. Nat., edn. 10, p. 441, 1758.
Sulzer, Kennz. d. Ins., p. 102, *Cimex* No. 1, pl. 11, fig. 69, 1761 (no specific name).
Geoffroy, Hist. Abreg. Ins., i, p. 434, No. 1, 1762 (no specific name). [name].
Scopoli, Ent. Carn., p. 121, 1763.
Brunnich, Entomologia, p. 82, 1764.
De Geer, Mémoires, iii, p. 296, pl. 17, figs. 10-15, 1773.
Fabricius, Syst. Ent., p. 693, 1775, *Acanthia*.
Goeze, Ent. Beytr., ii, p. 180, 1778.
Schränk, Enum. Ins. Austr., p. 262, 1781.
Retzius, Gen. Spec. Ins., p. 88, 1783.
Fourcroy, Ent. Paris., p. 195, 1785.
Fabricius, Ent. Syst., iv, p. 67, 1794, *Acanthia*.
Lamarek, Syst. Anim. s. Vert., p. 293, 1801.
Schränk, Fauna Boica, ii, p. 62, 1801, *Acanthia*.
Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (mentioned as example).
Walekenaer, Faune Paris., ii, p. 337, 1802, *Acanthia*.
Fabricius, Syst. Rhyng., p. 112, 1803, *Acanthia*.
Latreille, Hist. Nat. Crust. Ins., xlii, p. 255, 1804.
Wolff, Icon. Cimic., iv, p. 127, fig. 121, 1804, *Acanthia*.
Latreille, Genera Crust. Ins., iii, p. 137, 1807.
Fallén, Monog. Cimic. Suec., p. 27, 1807, *Acanthia*.
Zetterstedt, Fauna Lapp., p. 485, 1828, *Acanthia*.
Latreille in Cuvier, Règne Animal, edn. 2, v, p. 201, 1829.
Fallén, Hemip. Suec., Cimic., p. 141, 1829, *Acanthia*.
Hahn, Wanz. Ins., iii, p. 17, fig. 242, 1835.
Burmeister, Handb. d. Ent., ii, p. 253, 1835, *Acanthia*.
Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 165, 1836.
Spinola, Essai sur les Hémip., p. 170, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 110, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, p. 475, 1840.
Zetterstedt, Ins. Lapp., column 271, 1840, *Acanthia*.
Amyot and Serville, Hémip., p. 313, 1843, *Acanthia*.
Flor, Rhyn. Livl., i, p. 672, 1860, *Acanthia*.
Fieber, Europ. Hemip., p. 135, 1861, *Acanthia*.
Douglas and Scott, Brit. Hemip., p. 510, pl. 17, fig. 7, 1865, *Acanthia*.
Walker, Cat. Heter., vii, p. 43, 1873, *Acanthia*.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 427, 1877, *Acanthia*.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Acanthia*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878, *Acanthia*.
Berg, Hemip. Argent., p. 133, 1879.
Provancher, Pet. Faune Ent. Can., iii, p. 170, 1887.
Reuter, Rev. Synon., p. 319, No. 300, 1888.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894, *Acanthia*.
Marlatt, U. S. Dept. Agr., Div. Ent., Bul. N. S., iv, p. 32, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.
Kirkaldy, Fauna Hawai., iii, p. 129, 1902, *Klinophilos*.
Girault, Psyche, xii, p. 61, 1905, *Clinocoris* (life history).
Bueno and Brimley, Ent. News, xviii, p. 433, 1907, *Clinocoris*.

- Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1900, *Clinocoris*.
 Horvath, Ann. Mus. Natl. Hung., viii, p. 362, 1910, *Clinocoris*.
 Horvath, Ann. Mus. Natl. Hung., x, p. 258, 1912.
 Reuter, Zeit. f. Wissens. Insekt., ix, p. 325, 1913 (full account).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914 (noticed).
 Parshley, Psyche, xxi, p. 143, 1914, *Clinocoris*. [Linnaean).
domesticus Moufflet, Ins. Minim, Anim. Theatrum, p. 629, 1634, pre-
 Localities: All states.

837. *Cimex pilosellus* (Horv.)

- Horvath, Ent. Mo. Mag., xxi, p. 12, 1910, *Clinocoris*.
 Horvath, Ann. Mus. Natl. Hung., x, p. 259, 1912.
 †*pipistrelli* Chittenden, U. S. Dept. Agr., Div. Ent., Bul. N. S. xviii, p. 97.
 Zimmer, Ent. News, xxv, p. 418, 1914. [1898.
 Localities: N. Y., N. C., Neb., Colo., Ariz., Calif., Br. Col.

Genus *Oeciacus* Stål

Orthotype *hirundinis* (Jen.)

- Stål, Enum. Hemip., iii, p. 104, 1873.
 Horvath, Ann. Mus. Natl. Hung., x, pp. 257, 260, 1912.
 Reuter, Zeit. f. Wissens. Insekt., ix, pp. 254, 303, 1913.

838. *Oeciacus vicarius* Horv.

- Horvath, Ann. Mus. Natl. Hung., x, p. 261, 1912.
 †*hirundinis* (Gillette and Baker), Hemip. Colo., p. 56, 1895, *Acanthia*.
 Parshley, Psyche, xxi, p. 143, 1914, *Clinocoris*.
 Localities: Me., N. H., N. Y., Ia., Colo., Calif. (Mexico.)

Subfamily HAEMATOSIPHONINAE J. & R.

- Jordan and Rothschild, Novit. Zool., xix, p. 352, 1912.
 Reuter, Zeit. f. Wissens. Insekt., ix, p. 362, 1913.

Genus *Haematosiphon* Champ.

Haplotype *inodora* (Duges)

- Champion, Biol. Centr. Am., Heter., ii, p. 337, 1900.
 Horvath, Ann. Mus. Natl. Hung., x, pp. 257, 261, 1912.

839. *Haematosiphon inodorus* (Duges)

- Duges, La Naturelle, Ser. 2, ii, p. 169, pl. 8, figs. 1-7, 1892, *Acanthia*.
 Townsend, Proc. Ent. Soc. Wash., iii, p. 40, 1894, *Acanthia*.
 Champion, Biol. Centr. Am., Heter., ii, p. 337, pl. 20, fig. 1, 1900.
 Horvath, Ann. Mus. Natl. Hung., x, p. 262, 1912.
 Localities: N. Mex., Texas. (Mexico.)

Family ANTHOCORIDAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. xxxvii, 262, 1843, *Anthocorides*.
 Fieber, Genera Hydroc., p. 9, 1851, *Anthocoridae*.
 Dallas, List of Hemip., ii, p. 587, 1852, *Anthocoridae*.
 Costa, Cimic. Neap. Cent., iii, p. 69, 1852, Subfam. *Anthocorini*.
 Dohrn, Cat. Hemip., p. 36, 1859.
 Flor, Rhyn. Livl., i, p. 638, 1860, *Anthocoridae*.

- Fieber, Europ. Hemip., pp. 25, 37, 135, 1861.
 Stål, Hemip. Afr., iii, p. 23, 1865, *Anthocorida*.
 Douglas and Scott, Brit. Hemip., pp. 36, 490, 1865.
 Reuter, Of. Vet. Akad. Forh., xxxviii, p. 557, 1871, *Anthocorina*.
 Stål, Enum. Hemip., iii, p. 101, 1873, *Anthocorina*.
 Reuter, Monog. Anthoc., p. 3, 1884, *Anthocorina*.
 Uhler, Check List, p. 21, 1886, *Anthocorina*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 43, 1886, *Anthocorini* (tribe).
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 237, 1896 (as subfamily).
 Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900, *Anthocorinac*.
 Kirkaldy, Fauna Hawai., iii, p. 125, 1902, *Anthocorinae*.
 Kirkaldy, Can. Ent., xl, p. 361, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 613, 1909.
 Banks, Cat. Neare. Hemip., p. 23, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 18, 1911.
 Oshanin, Kat. Palae. Hemip., p. 56, 1912.

Subfamily LYCTOCORINAE (Reut.)

- Reuter, Monog. Anthoc., p. 4, 1884, Div. *Lyctocoraria*.
 Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900, Div. *Lyctocoraria*.
 Oshanin, Verz. Palae. Hemip., i, p. 613, 1909, Div. *Lyctocoraria*.
 Oshanin, Kat. Palae. Hemip., p. 58, 1912, Tribe *Lyctocoraria*.

Genus *Lyctocoris* Hahn

Logotype *domesticus* Hahn = *campestris* (Fabr.)

- Hahn, Wanz. Ins., iii, p. 19, 1835.
 Fieber, Wien. Ent. Monat., iv, p. 264, 1860.
 Flor, Rhyn. Livl., i, p. 665, 1860 (subgen. of *Xylocoris*).
 Fieber, Europ. Hemip., pp. 38, 138, 1861.
 Douglas and Scott, Brit. Hemip., p. 498, 1865.
 Reuter, Of. Vet. Akad. Forh., xxvii, p. 409, 1871.
 Reuter, Monog. Anthoc., pp. 5, 6, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900. [type *canadensis* Prov.]
Tetraphleps Provancher, Pet. Faune Ent. Can., iii, p. 90, 1886. (Haplo-

Subgenus *Lyctocoris* Hahn

- Reuter, Monog. Anthoc., pp. 6, 7, 1884.

840. *Lyctocoris campestris* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 75, 1794, *Acanthia*.
 Fabricius, Syst. Rhyng., p. 116, 1803, *Salda*.
 Stål, Hemip. Fabr., i, p. 90, 1868, *Anthocoris*.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 409, 1871.
 Reuter, Monog. Anthoc., p. 7, 1884.
 Reuter, Rev. Synon., p. 312, No. 295, 1888.
 Gillette and Baker, Hemip. Colo., p. 55, 1895.
 Champion, Biol. Centr. Am., Heter., ii, p. 307, 1900.
pallidus (Rossi), Mant. Ins., ii, p. 55, 1794, *Cimex*.
arvicola (Latreille), Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygacus*.
pallens (Fallén), Hemip. Suec., Cimic., p. 103, 1829, *Phytocoris*.

domesticus (Schilling), Isis, p. 738, 1834, *Cimex*.

Fieber, Europ. Hemip., p. 139, 1861.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871; xix, p. 416, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.

||*domesticus* Hahn, Wanz. Ins., iii, p. 20, fig. 243, 1835 (as new).

Herrich-Schaeffer, Wanz. Ins., ix, p. 228, 1853, *Anthocoris*.

Flor, Rhyn. Livl., i, p. 665, 1860.

bicuspis (Herrich-Schaeffer), Nomen. Ent., i, p. 60, 1835, *Anthocoris*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 12, 1853, *Anthocoris*.

dimidiata (Spinola), Essai sur les Hémip., p. 236, 1837 (1840), *Xylocoris*.

parisiensis (Amyot and Serville), Hémip., p. 264, 1843, *Xylocoris*.

Dallas, List of Hemip., ii, p. 589, 1852, *Xylocoris*.

americanus (Dallas), List of Hemip., ii, p. 589, 1852, *Xylocoris*.

Reuter, Monog. Anthoe., p. 166, 1884, *Xylocoris*.

distinguendus Flor, Rhyn. Livl., i, p. 666, 1860 (as variety).

pictus Fieber, Europ. Hemip., p. 138, 1861 (as variety).

currar (Garbiglietti), Bul. Soc. Ent. Ital., i, p. 123, 1869, *Cardiastethus*.

fitchii Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871.

Parshley, Psyche, xxi, p. 143, 1914.

Localities: Quebec, Ont., Me., N. Y., Pa., N. C., Ill., Wis., Ala., Texas, Colo.

841. *Lyctocoris canadensis* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 90, 1886, *Tetraphleps*.

Van Duzee, Can. Ent., xlv, p. 320, 1912.

Localities: Quebec, Ont.

Subgenus *Dolichomerium* Kirk.

Logotype *elongatus* Reut.

Kirkaldy, Entomologist, xxxiii, p. 242, 1900 (n.n. for *Dolichomerus* Reut.).

||*Dolichomerus* Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871.

Reuter, Monog. Anthoe., p. 10, 1884.

842. *Lyctocoris elongatus* (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 558, 1871, *Dolichomerus*.

Stål, Enum. Hemip., iii, p. 101, 1873, *Dolichomerus* (record only).

Reuter, Monog. Anthoe., p. 11, 1884, *Dolichomerus*.

Localities: S. C., Idaho.

843. *Lyctocoris stålîi* (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 558, 1871, *Dolichomerus*.

Stål, Enum. Hemip., iii, p. 101, 1872, *Dolichomerus* (record only).

Reuter, Monog. Anthoe., p. 10, 1884, *Dolichomerus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894, *Dolichomerus*.

reuteri B. White, Ent. Mo. Mag., xvi, p. 146, 1879, *Dolichomerus*.

Localities: N. Y., N. C., S. C., Fla., Calif., Vane. Isd.

Genus *Lasiochilus* Reut.

Haplotype *pallidulus* Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 562, 1871.

Reuter, Monog. Anthoe., p. 13, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 307, 1900.

Subgenus **Lasiochilus** Reut.

Reuter, Monog. Anthoc., p. 15, 1884.

844. **Lasiochilus pallidulus** Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 562, 1871.

Stål, Enum. Hemip., iii, p. 102, 1873 (record only).

Reuter, Monog. Anthoc., p. 17, 1884.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 198.

Champion, Biol. Centr. Am., Heter., ii, p. 309, 1900.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Localities: S. C., Fla., Texas. (West Indies, Mexico.)

Subgenus **Dilasia** Reut.

Haplotype *fuscula* Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 563, 1871.

Reuter, Monog. Anthoc., p. 20, 1884.

845. **Lasiochilus fuscus** Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 563, 1871.

Stål, Enum. Hemip., iii, p. 101, 1873.

Reuter, Monog. Anthoc., p. 22, 1884.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201, *Lasiochilus*.

Localities: N. Y., S. C., Texas.

Genus **Xylocoris** Duf.

Haplotype *rufipennis* Duf. = *cursitans* (Fall.)

Dufour, Ann. Sci. Nat. Paris, xxii, p. 423, 1831 (*rufipennis* only species).

Dufour, Ann. Soc. Ent. Fr., Ser. 1, ii, p. 106, 1833 (adds *ater* n.sp.).

Burmeister, Handb. d. Ent., ii, p. 289, 1835.

Spinola, Essai sur les Hémip., p. 235, 1837 (1840).

Amyot and Serville, Hémip., p. 263, 1843.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 170, 1853.

Stål, Hemip. Afr., iii, p. 23, 1865.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 119, 1906.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 25, 1912.

Piezostethus Fieber, Wien. Ent. Monat., iv, p. 265, 1860.

Fieber, Europ. Hemip., pp. 38, 139, 1861.

Douglas and Scott, Brit. Hemip., p. 500, 1865.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 410, 1871.

Reuter, Monog. Anthoc., p. 29, 1884.

Uhler, Check List, p. 21, 1886.

Champion, Biol. Centr. Am., Heter., ii, p. 315, 1900.

Oshanin, Verz. Palae. Hemip., i, p. 615, 1909.

Banks, Cat. Neare. Hemip., p. 24, 1910.

†*Piezostethus* Marshall, Ent. Mo. Mag., iv, p. 281, 1868.

Subgenus **Xylocoris** Duf.

Piezostethus Reuter, Monog. Anthoc., pp. 31, 36, 1884.

846. **Xylocoris galactinus** (Fieb.)

Fieber, Weit. Beitr., i, p. 107, 1836, *Anthocoris*.

Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus*.

- Douglas and Scott, Brit. Hemip., p. 500, pl. 17, fig. 2, 1865, *Piezostethus*.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 411, 1871, *Piezostethus*.
 Reuter, Monog. Anthoc., p. 36, 1884, *Piezostethus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 315, 1900, *Piezostethus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Piezostethus*.
albipennis Herrich-Schaeffer, Wanz. Ins., ix, p. 171, fig. 971, 1853 (*ater*
 Baerensprung, Berl. Ent. Zeit., ii, p. 194, 1858. [by error on the plate]).
 Flor, Rhyn. Livl., i, p. 669, 1860.
 Localities: N. Y., Ill., Ga., Fla. (Centr. Am., Europe.)

847. *Xylocoris sordidus* (Reut.)

- Reuter, Of. Vet. Akad. Forh., xxviii, p. 560, 1871, *Piezostethus*.
 Stål, Enum. Hemip., iii, p. 101, 1873, *Piezostethus*.
 Reuter, Monog. Anthoc., p. 37, 1884, *Piezostethus*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201, *Piezostethus*.
 Champion, Biol. Centr. Am., Heter., ii, p. 316, 1900, *Piezostethus*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Piezostethus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 158, 1910, *Piezostethus*.
 Localities: N. Y., Pa., Texas, N. Mex.

a. var. *binotatus* (Reut.)

- Reuter, Of. Vet. Akad. Forh., xxviii, p. 560, 1871, *Piezostethus* (as distinct
 Reuter, Monog. Anthoc., p. 37, 1884, *Piezostethus* (as variety). [species].
 Locality: S. C.

848. *Xylocoris flaccidus* (Van D.)

- Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914, *Piezostethus*.
 Locality: Calif.

849. *Xylocoris vicarius* (Reut.)

- Reuter, Monog. Anthoc., p. 45, 1884, *Piezostethus*.
 Locality: "Am. Sept."

850. *Xylocoris californicus* (Reut.)

- Reuter, Monog. Anthoc., p. 46, 1884, *Piezostethus*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 380, 1893, *Piezostethus*.
 Uhler, Proc. U. S. Natl. Mus., xvii, p. 363, 1904, *Piezostethus*.
 Localities: Utah, N. Mex., Calif.

851. *Xylocoris cursitans* (Fall.)

- Fallén, Monog. Cimic. Suec., p. 74, 1807, *Lygaeus*.
 Fallén, Hemip. Suec. Cimic., p. 69, 1829, *Anthocoris*.
 Sahlberg, Monog. Geoc. Fenn., p. 80, 1848.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 411, 1871, *Piezostethus*.
 Reuter, Monog. Anthoc., p. 43, 1884, *Piezostethus*.
rufipennis Dufour, Ann. Soc. Ent. Fr., ii, p. 106, 1831.
 Flor, Rhyn. Livl., i, p. 668, 1860.
 Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus*.
 Douglas and Scott, Brit. Hemip., p. 501, 1865, *Piezostethus*.
corticis (Hahn), Wanz. Ins., iii, p. 21, fig. 244, 1835, *Lycocoris*.
bicolor Scholz, Prod. Rhyn. Schles., p. 116, 1846.
 Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus*.
laticornis Mulsant and Rey, Ann. Soc. Linn. Lyons, p. 160, 1852.
 Localities: N. Y., N. J. (Palaeartic).

Genus **Asthenidea** Reut.Logotype *temnostethoides* Reut.

Reuter, Monog. Anthoc., p. 48, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 317, 1900.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906 (type fixation).

852. **Asthenidea temnostethoides** Reut.

Reuter, Monog. Anthoc., p. 51, 1884.

Locality: III.

Subfamily **ANTHOCORINAE** (Reut.)Reuter, Monog. Anthoc., pp. 4, 55, 1884, Div. *Anthocoraria*.Champion, Biol. Centr. Am., Heter., ii, p. 319, 1900, Div. *Anthocoraria*.Oshanin, Verz. Palae. Hemip., i, p. 613, 1909, Div. *Anthocoraria*.Oshanin, Kat. Palae. Hemip., p. 56, 1912, Tribe *Anthocoraria*.Genus **Anthocoris** Fall.Type *nemorum* Linn. = *sylvestris* (Linn.)

Fallén, Spec. Nova Hemip. Disp. Meth., p. 9, 1814.

Fallén, Hemip. Suec., Cimic., p. 65, 1829.

Herrieh-Schaeffer, Nomen. Ent., i, pp. 37, 60, 1835.

Burmeister, Handb. d. Ent., ii, p. 288, 1835.

Spinola, Essai sur les Hémip., p. 237, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 133, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *nemorum* Amyot and Serville, Hémip., p. 262, 1843. [type].)

Spinola, Tavola Sinot., p. 37, 1850.

Dallas, List of Hemip., ii, p. 588, 1852.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 218, 1853.

Fieber, Wien. Ent. Monat., iv, p. 263, 1860.

Flor, Rhyn. Livl., i, p. 643, 1860.

Fieber, Europ. Hemip., pp. 38, 136, 1861.

Douglas and Scott, Brit. Hemip., p. 494, 1865.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 419, 1871.

Reuter, Monog. Anthoc., pp. 56, 66, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 89, 1886.

Edwards, Ent. Mo. Mag., xxvi, p. 236, 1890 (British species only).

Champion, Biol. Centr. Am., Heter., ii, p. 323, 1900.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906.

Distant, Fauna Br. Ind., Rhyn., v, p. 298, 1910 (cites *nemorum* as type).[*Hylophila* Kirby MS] Stephens, Syst. Cat. Brit. Ins., p. 344, 1829.*Rhymarus* Hahn, Wanz. Ins., i, p. 104, 1831 (type *sylvestris* Linn.). [Lap.).*Leptomeris* Laporte, Essai Classif. Syst. Hémip., p. 10, 1832 (type *picta**Phyllocoris* Costa, Atti R. Inst. Incorr. Sc. Nap., vii, p. 264, 1847 (type

Reuter, Monog. Anthoc., p. 166, 1884.

[*nemorum* Linn.).853. **Anthocoris nigripes** Reut.

Reuter, Monog. Anthoc., p. 69, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 324, 1900.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.

Localities: N. Mex. (Mexico.)

854. *Anthocoris fulvipennis* Reut.

Reuter, Monog. Anthoc., p. 69, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 324, 1900.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.

Localities: N. Mex., Calif. (Mexico.)

855. *Anthocoris albiger* Reut.

Reuter, Monog. Anthoc., p. 70, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 323, 1900.

Localities: N. Mex. (Mexico.)

856. *Anthocoris bakeri* Popp.

Poppus, Ann. Soc. Ent. Belg., lvii, p. 14, 1913.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

a. var. *ornatus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.

Locality: Calif.

857. *Anthocoris whitei* Reut.

Reuter, Monog. Anthoc., p. 74, 1884.

Locality: Calif.

859. *Anthocoris antevolens* White

White (B.), Ent. Mo. Mag., xvi, p. 146, 1879.

Reuter, Monog. Anthoc., p. 77, 1884.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.

Gillette and Baker, Hemip. Colo., p. 55, 1895.

Localities: Colo., Mont., Calif.

860. *Anthocoris borealis* Dall.

Dallas, List of Hemip., ii, p. 588, 1852.

Reuter, Monog. Anthoc., p. 165, 1884 (copies description).

†*musculus* Provancher, Pet. Faune Ent. Can., iii, p. 89, 1886.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.

Localities: Quebec, Ont., N. H., N. Y.

861. *Anthocoris musculus* (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 802; Compl. Writ., i, p. [357, *Reduvius*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 427, 1877.

Reuter, Monog. Anthoc., p. 164, 1884.

Gillette and Baker, Hemip. Colo., p. 55, 1895.

Parshley, Psyche, xxi, p. 143, 1914.

Localities: Me., Colo.

862. *Anthocoris melanocerus* Reut.

Reuter, Monog. Anthoc., p. 81, 1884.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

Localities: Colo., Utah, Br. Col., Calif.

Genus *Triphleps* Fieb.

Type *niger* Wolff

Fieber, Wien. Ent. Monat., iv, p. 266, 1860.

Fieber, Europ. Hemip., pp. 39, 140, 1861.

- Douglas and Scott, Brit. Hemip., p. 502, 1865.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 414, 1871.
 Reuter, Monog. Anthoc., pp. 57, 89, 191, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 91, 1886.
 Champion, Biol. Centr. Am., Heter., ii, p. 326, 1900.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 8, 1906 (names *laevigatus* Fieb. type).

863. *Triphleps niger* (Wolf)

- Wolff, Icon. Cimic., v, p. 167, fig. 161, 1811, *Salda*.
 Fieber, Europ. Hemip., p. 140, 1861.
 Douglas and Scott, Brit. Hemip., p. 502, 1865.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 415, 1871.
 Reuter, Monog. Anthoc., p. 92, 1884.
 obscurus (Hahn), Wans. Ins., i, p. 110, fig. 59, 1831, *Rhynarius*.
 compressicornis Sahlbg., Monog. Geoc., p. 77, 1848.
 crassicornis Mulsant, Ann. Soc. Linn. Lyons, p. 161, 1857.
 †*fruticum* Flor, Rhyn. Livl., i, p. 653, 1860 (part).
 neglectus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 92, 1860.
 ullrichi Fieber, Europ. Hemip., p. 140, 1861 (variety).
 Localities: Calif. (Palaearectic).

864. *Triphleps insidiosus* (Say)

- Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 801; Compl. Writ., i, p. 357, *Reduvius*.
 Stål, Enum. Hemip., iii, p. 102, 1873.
 Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 320, 1876; iii, p. 427, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878.
 Reuter, Monog. Anthoc., p. 97, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 91, 1886.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
 Gillette and Baker, Hemip. Colo., p. 55, 1895.
 Champion, Biol. Centr. Am., Heter., ii, p. 327, 1900.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 26, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 158, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Malloch, Ent. News, xxvii, p. 200, 1916 (note on biting habit).
 pseudo-chinche (Fitch). 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 527,
 [1856 (reprinted in 1st and 2d Repts., p. 295), *Anthocoris*.
 lepidus (Stål), Rio Jan. Hemip., i, p. 43, 1860, *Anthocoris*.
 Stål, Enum. Hemip., iii, p. 102, 1873.
 rugicollis Reuter, Of. Vet. Akad. Forh., xxviii, p. 565, 1871.
 †*perpunctatus* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.
a. var latulus Reut.
 Reuter, Of. Vet. Akad. Forh., xxviii, p. 565, 1871.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
 Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J.,
 Fla., Mich., Ill., Mo., Neb., Kan., Colo., Texas. (Neotropical.)

865. *Triphleps tristicolor* White.

- White, Ent. Mo. Mag., xvi, p. 145, 1879.
 Reuter, Monog. Anthoc., p. 98, 1884.

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
 Champion, Biol. Centr. Am., Heter., ii, p. 327, 1900.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
 Essig, Inj. Ben. Ins. Calif., edn. 2, p. 209, 1915.
 Localities: Me., N. Y., Colo., Utah, N. Mex., Ariz., Calif., Idaho.

Subfamily DUFOURIELLINAE Van D.

- Van Duzee, Check List Hemip., p. 35, 1916 (n.n. for *Xylocoraria* Reut.).
Xylocoraria Reuter, Monog. Anthoe., pp. 4, 113, 1884 (as division).
 Champion, Biol. Centr. Am., Heter., ii, p. 330, 1900 (as division).
 Oshanin, Verz. Palae. Hemip., i, p. 633, 1909 (as division).

Genus Brachysteles Muls. & Rey

Type *pilicornis* Muls. = *parvicornis* Costa

- Mulsant and Rey, Ann. Soc. Linn. Lyons, iii, p. 104, 1852.
 Fieber, Wien. Ent. Monat., iv, p. 266, 1860.
 Fieber, Europ. Hemip., pp. 39, 141, 1861.
 Douglas and Scott, Brit. Hemip., p. 505, 1865.
 Reuter, Monog. Anthoe., pp. 113, 115, 1892, 1884.

866. Brachysteles pallidus Reut.

- Reuter, Monog. Anthoe., p. 118, 1884.
 Uhler, Check List, p. 21, 1886.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.
 Localities: "Southern States." (West Indies.)

Genus Cardiaethus Fieb.

Type *luridellus* Fieb.

- Fieber, Wien. Ent. Monat., iv, p. 266, 1860.
 Fieber, Europ. Hemip., pp. 39, 141, 1860.
 Douglas and Scott, Brit. Hemip., p. 506, 1865.
 Reuter, Monog. Anthoe., pp. 114, 130, 192, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 330, 1900.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 121, 1906 (type fixation only).
Dasypterus Reuter, Of. Vet. Akad. Forh., xxviii, p. 564, 1871 (type
 Banks, Cat. Neare. Hemip., p. 23, 1910. [*limbatellus* Stål].
Amphiarcus Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 220, 1904 (type
 [*fulvescens* Walk.].
Lippomanus Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 221, 1904 (type
 [*hirsutus* Dist.].

Subgenus Cardiaethus Fieb.

- Reuter, Monog. Anthoe., pp. 113, 135, 1884.

867. Cardiaethus assimilis (Reut.)

- Reuter, Of. Vet. Akad. Forh., xxviii, p. 564, 1871, *Dasypterus*.
 Reuter, Monog. Anthoe., p. 139, 1884.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.
 Champion, Biol. Centr. Am., Heter., ii, p. 332, 1900.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
 Localities: S. C., Fla., Texas. (Central America.)

868. *Cardiastethus pergandii* Reut.Reuter, Monog. Anthoc., p. 141, 1884 (spelled *pergaudei* by error).

Locality: D. C.

869. *Cardiastethus luridellus* Fieb.

Fieber, Wien. Ent. Monat., iv, p. 271, 1860.

Stål, Enum. Hemip., iii, p. 103, 1873.

Reuter, Monog. Anthoc., p. 142, 1884.

Locality: Pa.

Genus *Solenonotus* Reut.Haplotype *sulcifer* Stål

Reuter, Of. Vet. Akad. Forh., xxviii, p. 599, 1871.

Reuter, Monog. Anthoc., pp. 114, 149, 1884.

Stål, Enum. Hemip., iii, p. 101, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 334, 1900.

870. *Solenonotus angustatus* Popp.

Poppius, Ann. Soc. Ent. Belg., lvii, p. 13, 1913.

Locality: Calif.

Genus *Dufouriellus* Kirk.Orthotype *ater* Duf.Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 121, 1906 (n.n. for *Xylocoris* Westw.).†*Xylocoris* Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840Fieber, Wien. Ent. Monat., iv, p. 267, 1860. [names *ater* Duf. type].

Fieber, Europ. Hemip., pp. 39, 142, 1861.

Douglas and Scott, Brit. Hemip., p. 507, 1865.

Reuter, Of. Vet. Akad. Forh., xxvii, p. 412, 1871.

Reuter, Monog. Anthoc., pp. 114, 150, 1884.

871. *Dufouriellus ater* (Duf.)Dufour, Ann. Soc. Ent. Fr., Ser. 1, ii, p. 106, pl. 6, fig. 3, 1833, *Xylocoris*.Burmeister, Handb. d. Ent., ii, p. 290, 1835, *Xylocoris*.Blanchard, Hist. Nat. des Ins., Hémip., p. 234, 1840, *Anthocoris*.Herrich-Schaeffer, Wanz. Ins., ix, p. 170, 1853, *Xylocoris*.

Baerensprung, Berl. Ent. Zeit., ii, p. 196, 1858.

Fieber, Europ. Hemip., i, p. 142, 1861.

Douglas and Scott, Brit. Hemip., p. 508, pl. 17, fig. 6, 1865.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 413, 1871.

Reuter, Monog. Anthoc., p. 151, 1884.

Oshanin, Verz. Palae. Hemip., i, p. 637, 1909.

tardus (Herrich-Schaeffer), Nomen. Ent., i, p. 60, 1835, *Anthocoris*.*elongatus* (Fieber), Weit. Beit., i, p. 109, pl. 2, fig. 8, 1836, *Anthocoris*.

Localities: N. Y. (Palaearectic.)

Genus *Scoloposcelis* Fieb.Type *crassipes* Flor = *pulchellus* Zett.

Fieber, Wien. Ent. Monat., vii, p. 61, 1864.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 413, 1871.

Ferrari, Ann. Mus. Civ. Stor. Nat. Genova, xii, p. 90, 1878.

Reuter, Monog. Anthoc., pp. 114, 151, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 335, 1900.

- Oshanin, Kat. Palae. Hemip., p. 59, 1912. [(type *contubernalis* Dist.).
Ostorodias Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 219, 1904
Sesellius Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 221, 1904 (type
 [parallelus Mots.).

872. *Scoloposcelis flavicornis* Reut.

- Reuter, Of. Vet. Akad. Forh., xxviii, p. 561, 1871.
 Reuter, Monog. Anthoc., p. 154, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 335, pl. 19, fig. 32, 1900.
 Localities: Pa., Fla., Texas. (Mexico.)

873. *Scoloposcelis discalis* Van D.

- Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
 Locality: Calif.

Family TERMATOPHYLIDAE (Reut.)

- Reuter, Wien. Ent. Zeit., iii, p. 218, 1884, Subfam. *Termatophylina*.
 Reuter, Monog. Anthoc., p. 167, 1884, Subfam. *Termatophylina*, [phylidae.
 Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 253, 1896, Subfam. *Termato-*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Termatophylinae*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 70, 1910, *Termatophylidae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 2, 1912; No. 6.
 Oshanin, Kat. Palae. Hemip., p. 59, 1912. [pp. 19, 48, 52, 1912.

Genus *Hesperophylum* Reut.

Haplotype *heidemanni* Reut.

- Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 16, 1912.

874. *Hesperophylum heidemanni* Reut.

- Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 17, 1912.
 Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
 Localities: N. H., Ariz.

PHALANX MIRIFORMES Reut.

- Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
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 Distant, Biol. Centr. Am., Heter., i, p. 234, 1883.
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 Ashmead, Ent. Am., iv, p. 69, 1888.
 Atkinson, Cat. Capsidae, p. 25, 1889.
Miridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (Family).
 Kirkaldy, Can. Ent., xl, p. 361, 1908.
Capsiformes Oshanin, Kat. Palae. Hemip., p. 59, 1912.

Family MIRIDAE (Hahn)

- Hahn, Wanz. Ins., i, p. 234, 1831, *Mirides*.
 Brullé, Hist. Nat. des Ins., ix, p. 405, 1835, *Miriens*.
 Blanchard, Hist. Nat. des Ins., Hémipt., p. 135, 1840, *Miriens*.

- Kirkaldy, Entomologist, xxxii, p. 221, 1899.
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 Bergroth, Wien. Ent. Zeit., xxii, p. 255, 1903.
 Horvath, Ann. Mus. Natl. Hung., ii, p. 577, 1904.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Mirinae*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 69, 84, 1910 (Systematic).
 Reuter, Of. Finska Vet. Soc. Forh., Afd. A, No. 6, pp. 48, 52, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent., Tech. Bul., i, p. 199, 1916. (Key.)
 Van Duzee, Check List Hemip., p. 35, 1916.
Capsini Burmeister, Handb. d. Ent., ii, p. 263, 1835.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 35, 1836.
 Spinola, Essai sur les Hémipt., p. 182, 1837 (1840), *Capsoides*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 479; Synop., p. 121, 1840.
 Spinola, Tavola Sinot., pp. 26, 43, 1850, *Capsites*. [Capsidae.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 163, 1853.
 Flor, Rhyn. Livl., i, p. 404, 1860, *Capsina*.
 Costa, Add. Cimic. Neap., p. 20, 1860, *Capsidea*.
 Douglas and Scott, Brit. Hemip., pp. 27, 276, 1865, Sec. *Capsina*.
 Stål, Hemip. Afr., iii, p. 17, 1865, *Capsida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 667, 1870, *Capsina*.
 Thomson, Opusc. Ent., i, p. 410, 1871, *Capsina*.
 Reuter, Rev. Crit. Caps., i, p. 65, 1875, Subfam. *Capsina*.
 Reuter, Genera Cimic. Eur., p. 4, 1875, Subfam. *Capsina*.
 Reuter, Hemip. Gymn. Eur., i, p. 15, 1878, Subfam. *Capsina*.
 Distant, Biol. Centr. Am., Heter., i, p. 235, 1883, *Capsinae*.
 Uhler, Check List, p. 17, 1886, *Capsidae*.
 Puton, Cat. Hémipt. Palae., edn. 3, p. 45, 1886, Tribe *Capsini*.
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 412, 1904, *Capsidae*.
 Reuter, Festsch. f. Palmen, i, 1905 (systematic).
 Oshanin, Verz. Palae. Hemip., i, p. 645, 1909, *Capsidae*.
 Banks, Cat. Neare. Hemip., p. 28, 1910.
 Oshanin, Kat. Palae. Hemip., p. 59, 1912, *Capsidae*.
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Bicellules Amyot and Serville, Hémipt., pp. xxxviii, 275, 1843.
 Dohrn, Cat. Hemip., p. 37, 1859, *Bicelluli*.
Phytocoridae Fieber, Wien. Ent. Monats., ii, p. 289, 1858.
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Subfamily MIRINAE (Reut.)

- Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 128, 155, 1910, *Mirina*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 201, 203, 1916.
Capsinae Amyot and Serville, Hémipt., pp. xxxix, 278, 1843, *Capsides*.
 Oshanin, Kat. Palae. Hemip., p. 59, 1912.

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 Dohrn, Cat. Hemip., p. 37, 1859, *Miridae*.

- Douglas and Scott, Brit. Hemip., pp. 29, 282, 1865, Family *Miridae*.
 Reuter, Genera Cimic. Eur., p. 5, 1875, Div. *Miraria*.
 Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 1, 1875, Div. *Miraria*.
 Berg, Hemip. Argent., p. 117, 1879, Subfam. *Myridina*.
 Reuter, Hemip. Gymn. Eur., iii, p. 565, 1883, Div. *Miraria*.
 Puton, Cat. Hemip. Palae., edn. 3, p. 45, 1886, Div. *Miraria*.
 Uhler, Check List, p. 17, 1886, *Miraria*.
 Provancher, Pet. Faune Ent. Can., iii, p. 95, 1886, *Mirides*.
 Atkinson, Cat. Capsidae, p. 32, 1889, Div. *Miraria*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, §*Mininae*.
 Reuter, Festsch. f. Palmen, i, pp. 21, 28, 1905, Div. *Miraria*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906, Tribe *Mirini*.
 Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Mirini*.
 Oshanin, Verz. Palae. Hemip., i, p. 761, 1909, Div. *Miraria*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii. No. 3, pp. 129, 130, 1910, Div. *Miraria*.
 Banks, Cat. Neare. Hemip., p. 40, 1910, *Mirini*.
 Oshanin, Kat. Palae. Hemip., p. 68, 1912, Div. *Miraria*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.
 Van Duzee, Check List Hemip., p. 35, 1916.

Genus *Collaria* Prov.

Haplotype *meilleurii* Prov.

- Provancher, Nat. Can., iv, p. 79, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 101, 1886.
 Uhler, Ent. Am., ii, p. 230, 1887.
 Distant, Biol. Centr. Am., Heter., i, p. 417, 1893.
 Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 64, 1909.
 Reuter, Of. Finska Vet.-Soc. Forh., li, No. 13, p. 11, 1909 (description).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
Trachelomiris Reuter, Caps. Am. Bor., p. 61, 1876 (type *oculatus* Reut.).
 Distant, Biol. Centr. Am., Heter., i, p. 238, 1883. [*coracina* Uhl.).
Nabidca Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 397, 1878 (Type

875. *Collaria meilleurii* Prov.

- Provancher, Nat. Can., iv, p. 79, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 102, 1886.
 Uhler, Ent. Am., ii, p. 230, 1887.
 Van Duzee, Can. Ent., xix, p. 70, 1887, *Trachelomiris*.
 Van Duzee, Can. Ent., xxi, p. 3, 1889.
 Harrington, Ottawa Nat., vi, p. 27, 1892, *Trachelomiris*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
 Montgomery, Ent. News, xiii, p. 13, 1902.
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 Moore, Can. Ent., xxxix, p. 163, 1907.
 Van Duzee, Can. Ent., xl, p. 112, 1908.
 Parshley, Psyche, xxi, p. 142, 1914.
coracina Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 398, 1878, *Nabidca*.
 Localities: Ont., N. Y.

876. *Collaria oculata* (Reut.)

- Reuter, Caps. Am. Bor., p. 61, 1876, *Trachelomiris*.
 Van Duzee, Can. Ent., xix, p. 70, 1887, *Trachelomiris*.

- Osborn, Proc. Ja. Acad. Sci., i, pt. 2, p. 123, 1892, *Trachelomiris*.
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 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Parshley, Psyche, xxi, p. 142, 1914.

Localities: Quebec, Ont., N. Y., N. J., Pa., Ga., Fla., Ia., Kans., Texas.

877. *Collaria explicata* Uhl.

- Uhler, Ent. Am., ii, p. 230, 1887.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Fla. (West Indies, Mexico.)

878. *Collaria oleosa* (Dist.)

- Distant, Biol. Centr. Am., Heter., i, p. 238, pl. 24, fig. 2, 1883, *Trachelomiris*.
 Distant, Biol. Centr. Am., Heter., i, p. 417, 1893.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 266.
 Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.

Localities: Calif.(?). (Mexico.)

Genus *Miris* Fabr.

Orthotype *dolabratus* (Linn.)

- Fabricius, Ent. Syst., iv, p. 183, 1794 (indicates *dolabratus* as type).
 Latreille, Precis, p. 84, 1796.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 246, 1802; xii, p. 221, 1804.
 Fabricius, Syst. Rhyng., p. 253, 1803.
 Latreille, Genera Crust. Ins., iii, p. 124, 1807.
 Fallén, Monog. Cimic. Suec., p. 106, 1807.
 Latreille, Consid. Genl., pp. 255, 433, 1810 (names *striatus* pseudotype).
 Latreille, in Cuvier, Règne Anim., edn. 2, v, p. 199, 1829.
 Fallén, Hemip. Suec., Cimic., p. 127, 1829.
 Hahn, Wanz. Ins., ii, p. 73, 1834, §*Myris*.
 Burmeister, Handb. d. Ent., ii, p. 264, 1835.
 Brullé, Hist. des Ins., ix, p. 409, 1835.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 35, 1836.
 Spinola, Essai sur les Hémip., p. 186, 1837 (1840).
 Blanchard, Hist. des Ins., Hémip., p. 135, 1840.
 Westwood, Introd. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (cites *dolabratus* Amyot and Serville, Hémip., p. 277, 1843. [as type]).
 Spinola, Tavola Sinot., p. 43, 1850.
 Reuter, Rev. Synon., p. 243, 1888 (cites *dolabratus* as type).
 Atkinson, Cat. Capsidae, p. 32, 1889.
 Hübner, Synop. deut. Bindw., i, pp. 33, 63, 1894.
 Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 1, 1904 (note).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

- †*Lopus* Herrich-Schaeffer, Wanz. Ins., iii, p. 35, 1836.
 Kirschbaum, Rhyng. geg. v. Wiesbd., Caps., pp. 34, 105, 1855.
Leptopterna Fieber, Wien. Ent. Monat., ii, p. 302, 1858.
 Fieber, Europ. Hemip., pp. 63, 244, 1861.
 Thomson, Opusc. Ent., iv, p. 415, 1871.
 Reuter, Genera Cimic. Eur., p. 9, 1875.
 Reuter, Rev. Crit. Caps., ii, p. 13, 1875.
 Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886.
 Puton, Cat. Hemip. Palae., edn. 3, p. 46, 1886.
 Uhler, Check List, p. 17, 1886.
Lopomorphus Douglas and Scott, Brit. Hemip., p. 293, 1865.

879. *Miris dolabratus* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 449, 1758; edn. 12, i, p. 730, 1767, *Cimex*.
 Fabricius, Syst. Ent., p. 726, 1775, *Cimex*.
 Schrank, Enum. Ins. Austr., p. 285, 1781, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 183, 1794.
 Schrank, Fauna Boic., ii, p. 96, 1801, *Cimex*.
 Fabricius, Syst. Rhyng., p. 252, 1803.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804.
 Fallén, Monog. Cimic. Suec., p. 107, 1807.
 Zetterstedt, Fauna Lapp., p. 501, 1828.
 Fallén, Hemip. Suec., Cimic., p. 128, 1829.
 Hahn, Wanz. Ins., ii, p. 75, fig. 160, 1834.
 Burmeister, Handb. d. Ent., ii, p. 267, 1835, *Phytocoris*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 47, 1835, *Lopus*.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 45, figs. 261, 262, 1835, *Lopus*.
 Zetterstedt, Ins. Lapp., col. 286, 1840.
 Blanchard, Hist. des Ins., Hémipt., p. 136, 1840.
 Meyer-Duer, Verz. Schw. Rhyng., p. 38, 1843.
 Sahlberg, Monog. Geoc. Fenn., p. 82, 1848, *Lopus*. (Oshanin says p. 88.)
 Kirschbaum, Rhyng. Geg. v. Wiesbd., Caps., p. 196, 1855, *Lopus*.
 Flor, Rhyng. Livl., i, p. 437, 1860.
 Fieber, Europ. Hemip., p. 245, 1861 (var. b), *Leptopterna*.
 Douglas and Scott, Brit. Hemip., p. 297, 1865, *Lopomorphus*.
 Stål, Hemip. Fabr., i, p. 90, 1868.
 Thomson, Opusc. Ent., iv, p. 415, 1871.
 Reuter, Rev. Crit. Caps., ii, p. 15, 1875, *Leptopterna*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 397, 1878, *Lopomorphus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886, *Leptopterna*.
 Van Duzee, Can. Ent., xix, p. 70, 1887, *Leptopterna*.
 Reuter, Rev. Synon., p. 243, No. 209, 1888.
 Saunders, Heter. Brit. Isds., p. 227, pl. 20, fig. 10, 1892, *Leptopterna*.
 Harrington, Ottawa Nat., vi, p. 27, 1892, *Leptopterna*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Leptopterna*.
 Slosson, Ent. News, v, p. 5, 1894, *Leptopterna*.
 Montgomerly, Ent. News, xiii, p. 13, 1902, *Leptopterna*.
 Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Leptopterna*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Leptopterna*.
 Moore, Can. Ent., xxxix, p. 163, 1907, *Leptopterna*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Van Duzee, Can. Ent., xl, p. 111, 1908.

- Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
 Parshley, Psyche, xxi, p. 141, 1914.
?frumentarius Poda, Ins. Musei Graec., p. 60, 1761, *Cimex*.
riparius Scopoli, Ent. Carn., p. 135, 1763, *Cimex*.
†laevigatus De Geer, Mémoires, iii, p. 292, 1773, *Cimex*.
 Retzius, Genera et Spec. Ins., p. 88, No. 437, 1783, *Cimex*.
lateralis Fabricius, Genera Ins., p. 300, 1776, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 184, 1794.
 Wolff, Icon. Cimic., iii, p. 115, fig. 109, 1802.
 Fabricius, Syst. Rhyng., p. 254, 1803.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804.
?des Müller, Zool. Danicae Prodr., p. 108, 1776, *Cimex*.
antenni-rectus Goeze, Ent. Beytr., ii, p. 267, 1778, *Cimex*.
v-flavum Goeze, Ent. Beytr., ii, p. 279, 1778, *Cimex*.
porrectus Geoffroy in Foureroy, Ent. Paris., p. 206, 1785, *Cimex*.
recticornis Gmelin in Linnaeus, Syst. Nat., edn. 13, p. 2185, 1788, *Cimex*.
abbreviatus Wolff, Icon. Cimic., iii, p. 116, fig. 110, 1802.
?picticeps Curtis, Brit. Ent., xv, pl. 701, 1838.
carinatus Douglas and Scott, Brit. Hemip., p. 294, 1865, *Lopomorphus*.
belangeri Provancher, Nat. Can., iv, p. 78, 1872.
 Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., Md. (Europe.)

880. *Miris ferrugatus* Fall.

- Fallén, Monog. Cimic. Suec., p. 107, 1807.
 Fallén, Hemip. Suec. Cimic., p. 129, 1829.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 46, fig. 263, 1835, *Lopus*.
 Meyer-Duer, Verz. Schw. Rhyn., Caps., p. 39, 1843, *Lopus*.
 Kirschbaum, Rhyng. Geg. v. Wiesbd., Caps., p. 196, 1855, *Lopus*.
 Flor, Rhyng. Livl., i, p. 439, 1860.
 Douglas and Scott, Brit. Hemip., p. 295, pl. 10, fig. 6, 1865, *Lopomorphus*.
 Reuter, Revue Crit. Caps., ii, p. 14, 1875, *Leptopterna*.
 Saunders, Heter. Brit. Isds., p. 227, pl. 20, fig. 9, 1892, *Leptopterna*.
 Hübner, Synop. deut. Blindw., i, p. 64, 1894.
 Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900, *Leptopterna*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
discors Costa, Cimic. Reg. Neap., Cent. 3, p. 57, 1852, *Lopus*.
dolabratus Fieber, Europ. Hemip., p. 245, 1861, *Leptopterna* (var. a).
 Localities: Quebec, Alaska. (Europe.)

881. *Miris amoenus* (Uhl.)

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872, *Leptopterna*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876, *Leptopterna*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Leptopterna*.
 Gillette and Baker, Hemip. Colo., p. 29, 1895, *Leptopterna*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
 Localities: Ia., Dak., Colo., Idaho.

Genus *Stenodema* Lap.

Orthotype virens (Fabr.)

- Laporte, Essai Classif. Syst. Hémip., p. 40, 1832.
 Reuter, Rev. Syst., p. 237, 1888.
 Hübner, Synop. deut. Blindw., i, pp. 33, 36, 1894.

Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 15, p. 1, 1904.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

†*Miris* Herrich-Schaeffer, Wanz. Ins., iii, p. 37, 1836.

Kirsebaum, Rhyng. geg. v. Wiesbd., Caps., pp. 32, 105, 1855.

Fieber, Wien. Ent. Monat., ii, p. 301, 1858.

Fieber, Europ. Hemip., pp. 62, 239, 1861.

Douglas and Scott, Brit. Hemip., p. 282, 1865.

Reuter, Genera Cimie. Eur., p. 8, 1875.

Reuter, Rev. Crit. Caps., ii, p. 1, 1875.

Distant, Biol. Centr. Am., Heter., i, p. 236, 1883.

Puton, Cat. Hemip. Palae., edn. 3, p. 45, 1886.

Uhler, Check List, p. 17, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886.

Subgenus *Brachystira* Fieb.

Haplotype *calcaratus* (Linn.)

Fieber, Wien. Ent. Monat., ii, p. 301, 1858.

Van Duzee, Check List Hemip., p. 36, 1916.

‡*Brachytropis* Fieber, Wien. Ent. Monat., ii, p. 343, 1858.

Fieber, Europ. Hemip., pp. 62, 241, 1861.

Thomson, Opusc. Ent., iv, p. 413, 1871.

Reuter, Genera Cimie. Eur., p. 8, 1875.

Reuter, Rev. Crit. Caps., i, p. 78; ii, p. 1, 1875 (as subgen. of *Miris*)

Puton, Cat. Hemip. Palae., p. 45, 1886 (subgen. of *Miris*).

Uhler, Check List, p. 17, 1886 (as genus).

Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 15, p. 3, 1904 (as subgen.).

882. *Stenodema trispinosum* Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlv, No. 15, pp. 4, 8, 1904.

Van Duzee, Can. Ent., xl, p. 111, 1908.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Reuter, Neark. Caps., p. 4, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Parshley, Psyche, xxi, p. 140, 1914.

[*tropis*.

†*calcaratus* (Uhler), Bnl. U. S. Geol. Geog. Surv., i, p. 316, 1876, *Brachy-*

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877, *Brachytropis*.

Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889, *Brachytropis*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Brachytropis*.

Gillette and Baker, Hemip. Colo., p. 28, 1895, *Brachytropis*.

Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900, *Brachytropis*.

Montgomery, Ent. News, xiii, p. 13, 1902, *Brachytropis*.

Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Brachytropis*.

Localities: Quebec, Ont., Me., Mass., N. Y., D. C., Colo., Calif.,

Brit. Col.

Subgenus *Stenodema* Lap.

Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 15, p. 4, 1904.

Lobostethus Fieber, Wien. Ent. Monat., ii, p. 301, 1858 (haplotype *virens*

Fieber, Europ. Hemip., pp. 62, 242, 1861.

[Fabr.).

‡*Miris* Thomson, Opusc. Ent., iv, p. 414, 1871.

Reuter, Genera Cimie. Eur., p. 8, 1875.

Reuter, Rev. Crit. Caps., i, p. 78; ii, p. 2, 1875.

883. *Stenodema vicinum* (Prov.)

Provancher, Nat. Can., iv, p. 77, 1872, *Miris*.

Parshley, Psyche, xxi, p. 141, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

†*vagans* Say, Hemip. N. Harm., p. 26; Fitch reprint, p. 792; Compl. Writ., i, p. 348, *Miris*.

instabilis (Uhler), Wheeler's Rept. Surv. 100th Mer., v, p. 836, 1875, *Miris*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 361, 1876, *Miris*. [Miris.]

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877; iv, p. 506, 1878,

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Miris*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878, *Miris*.

Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886, *Miris*.

Van Duzee, Can. Ent., xix, p. 70, 1887, *Miris*.

Bergroth, Wien. Ent. Zeit., xvii, p. 33, 1898.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Miris*.

Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Miris*.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Miris*.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907, *Miris*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

affinis (Reuter), Caps. Am. Bor., p. 59, 1876, *Miris*.

Van Duzee, Can. Ent., xxi, p. 3, 1889, *Miris*.

Distant, Biol. Centr. Am., Heter., i, p. 236, 1883, *Miris*.

Atkinson, Cat. Capsidae, p. 33, 1889, *Miris*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Miris*.

Harrington, Ottawa Nat., vi, p. 27, 1892, *Miris*.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Miris*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Miris*.

Gillette and Baker, Hemip. Colo., p. 28, 1895, *Miris*.

Slosson, Ent. News, ix, p. 251, 1898, *Miris*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Miris*.

Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Miris*.

Moore, Can. Ent., xxxix, p. 163, 1907, *Miris*.

Van Duzee, Can. Ent., xl, p. 111, 1908. [Miris.]

[*rubellus* Uhler MS], Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905,

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Miris rubillus*.

Localities: Quebec, Ont., Me., N. H., N. Y., Pa., Mich., Kans., Colo.,
N. Mex., Calif.

884. *Stenodema dorsalis* (Say)

Say, Heter. N. Harm., p. 26; Fitch reprint, p. 793; Compl. Writ., i, p. 348,

[Miris.]

Locality: "U. S."

885. *Stenodema virens* (Linn.)

Linnaeus, Syst. Nat., edn. 12, i, p. 730, 1767, *Cimex*.

Schrank, Enum. Ins. Austr., p. 288, 1781, *Cimex*.

Rossi, Fauna Etrusca, ii, p. 251, 1790, *Cimex*.

Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris*.

Wolff, Icon. Cimic., ii, p. 78, fig. 75, 1801, *Miris*.

Schrank, Fauna Boica, ii, p. 95, 1801, *Cimex*.

Fabricius, Syst. Rhyng., p. 254, 1803, *Miris*.

- Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris*.
 Le Peletier and Serville, Encyc. Méth., x, p. 324, 1825, *Miris*.
 Laporte, Essai Classif. Syst. Hémip., p. 40, 1832.
 Herrich-Schaeffer, Nom. Ent., i, p. 47, 1835, *Miris*.
 Brullé, Hist. des Ins., ix, p. 409, pl. 35, fig. 5, 1835, *Miris*.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 42, fig. 257, 1836, *Miris*.
 Spinola, Essai sur les Hémip., p. 137, 1837 (1840), *Miris*.
 Blanchard, Hist. des Ins., Hémip., p. 135, 1840, *Miris*.
 Meyer-Duer, Verz. Schw. Rhyng., p. 35, 1843, *Miris*.
 Kolenati, Melet. Ent., ii, p. 99, 1845, *Miris*.
 Sahlberg, Monog. Geoc. Fenn., p. 86, 1848, *Miris*.
 Costa, Cimic. Reg. Neap., Cent. iii, p. 31, 1852, *Miris*.
 Kirschbaum, Rhyng. geg. v. Wiesbd., Caps., p. 35, 1855, *Miris*.
 Flor, Rhyng. Livl., i, p. 423, 1860, *Miris*.
 Fieber, Europ. Hemip., p. 243, 1861, *Lobostethus*.
 Thomson, Opusc. Ent., iv, p. 414, 1871, *Miris*.
 Reuter, Rev. Crit. Caps., ii, p. 2, 1875, *Miris*.
 Reuter, Revue Synon., p. 237, No. 203, 1888.
 Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 15, p. 4, 1904.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 †*laevigatus* (Zetterstedt), Fauna Lapp., p. 501, 1828, *Miris*.
 Hahn, Wanz. Ins., p. 76, fig. 161, 1834, *Miris*.
 Zetterstedt, Ins. Lapp., column 286, 1840, *Miris*.
 virescens (Fallén), Hemip. Suec., Cimic., p. 131, 1829, *Miris* (as var.).
 †*ruficornis* (Hahn), Wanz. Ins., ii, p. 220, 1834, *Miris*.
 Localities: "N. Am." (Europe.)

Genus **Megaloceroea** Fieb.

Haplotype *longicornis* Fieb. = *linaris* (Fues.)

- Fieber, Wien. Ent. Monat., ii, p. 301, 1858.
 Fieber, Europ. Hemip., pp. 62, 243, 1861.
 Walker, Cat. Heter., vi, p. 41, 1873.
 Reuter, Genera Cimic. Eur., p. 9, 1875.
 Reuter, Crit. Rev. Caps., i, p. 78; ii, p. 5, 1875.
 Hüeber, Synop. deut. Blindw., i, pp. 33, 52, 1894. [*linaris* Fus. type].
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 424, 1904 (names *recticornis* Geof. =
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

886. **Megaloceroea debilis** Uhl.

- *Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Miris*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 122, 1892.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
 Gillette and Baker, Hemip. Colo., p. 28, 1895.
 Osborn, Ohio Nat., i, p. 12, 1900.
 Reuter, Neark. Caps., p. 5, 1909.

Localities: Ia., Colo., Vane. Isd.

887. **Megaloceroea rubicunda** Uhl.

- *Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Miris*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 122, 1892.

Localities: Ia., Colo.

888. *Megaloceroea gracilis* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914, *Stenodema*.

Van Duzee, Check List, p. 36, 1916.

Locality: Calif.

Genus *Mesomiris* Reut.

Haplotype *curtulus* Reut.

Reuter, Neark. Caps., p. 4, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

889. *Mesomiris curtulus* Reut.

Reuter, Neark. Caps., p. 5, 1909.

Localities: Mass., Conn., Md., Pa.

Genus *Trigonotylus* Fieb.

Haplotype *ruficornis* (Geoff.)

Fieber, Wien. Ent. Monat., ii, p. 302, 1858.

Fieber, Europ. Hemip., pp. 66, 243, 1861.

Reuter, Genera Cimic. Eur., p. 9, 1875 (as subgenus).

Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 6, 1875 (as subgenus).

Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886.

Hüeber, Synop. Deut. Blindw., i, pp. 33, 54, 1894.

Reuter, Neark. Caps., p. 5, 1909.

Oshanin, Verz. Palae. Hemip., i, p. 773, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

Callimiris Reuter, Caps. Am. Bor., p. 60, 1875 (type *uhleri* Reut.).

890. *Trigonotylus ruficornis* (Geoff.)

Cimex No. 45, Geoffroy, Hist. Abreg. des Ins., i, p. 47, 1762.

Geoffroy in Fourcroy, Ent. Paris., p. 209, 1785, *Cimex*.

Fallén, Monog. Cimic. Suec., p. 112, 1807, *Miris* (as new).

Zetterstedt, Fauna Lapp., p. 502, 1828, *Miris*.

Fallén, Hemip. Suec., Cimic., p. 133, 1829, *Miris*.

Herrich-Schaeffer, Nom. Ent., i, p. 47, 1835, *Miris*.

Herrich-Schaeffer, Wanz. Ins., iii, p. 40, 1836, *Miris*.

Spinola, Essai sur les Hémip., p. 187, 1837 (1840), *Miris*.

Zetterstedt, Ins. Lapp., column 287, 1840, *Miris*.

Rambur, Fauna Ent. Andul., p. 158, 1842, *Miris*.

Meyer-Duer, Verz. Schw. Rhyng., p. 37, 1843, *Miris*.

Sahlberg, Monog. Geoc. Fenn., p. 87, 1848, *Miris*.

Costa, Cimic. Reg. Neap., Cent., iii, p. 32, 1852, *Miris*.

Kirschbaum, Rhyn. geg. v. Wiesbd., Caps., p. 192, 1855, *Miris*.

Flor, Rhyng. Livl., i, p. 435, 1860, *Miris*.

Fieber, Europ. Hemip., p. 243, 1861.

Douglas and Scott, Brit. Hemip., p. 290, 1865.

Thomson, Opusc. Ent., iv, p. 413, 1871, *Miris*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872.

Reuter, Crit. Rev. Caps., ii, p. 7, 1875.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876; iii, p. 413, 1877; iv, p. Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886. [506, 1878.
 Van Duzee, Can. Ent., xix, p. 70, 1887.
 Reuter, Revue Synon., p. 242, No. 208, 1888.
 Van Duzee, Can. Ent., xxi, p. 3, 1889.
 Harrington, Ottawa Nat., vi, p. 27, 1892.
 Osborn, Proc. Ja. Acad. Sci., i, pt. 4, p. 123, 1893.
 Slosson, Ent. News, v, p. 5, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
 Gillette and Baker, Hemip. Colo., p. 28, 1895.
 Heidemann, Proc. Wash. Acad. Sci., ii, p. 503, 1900, *Megaloceroea*.
 Montgomery, Ent. News, xiii, p. 13, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Megaloceroea*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Van Duzee, Can. Ent., xl, p. 112, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
 Van Duzee, Can. Ent., xlv, p. 320, 1912.
viridis (Provancher), Nat. Can., iv, p. 78, 1872, *Miris*.
 Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Kans.,
 Colo., Alaska. (Europe.)

891. *Trigonotylus pulcher* Reut.

- Reuter, Caps. Am. Bor., p. 59, 1876.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
 Gillette and Baker, Hemip. Colo., p. 28, 1885.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Localities: Me., Mass., N. J., Fla., Kans., Colo., N. Mex., Texas.

892. *Trigonotylus brevipes* Jak.

- Jakowlef, Horae Soc. Ent. Ross., xi, p. 63 (Oshanin says 215), 1880.
 Reuter, Ann. Mus. Zool. Acad. Imp. St. Pet., ix, p. 5, 1904.
 Reuter, Ent. Mo. Mag., Ser. 2, xix, p. 27, 1908.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 6, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
tenuis Reuter, Rev. d'Ent., xii, p. 208, 1893 (var. of *ruficornis*).
 Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 7, p. 1, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.
pallidicornis Reuter, Of. Finska Vet.-Soc. Forh., xlii, p. 161, 1899.
 Localities: N. J., Fla., Colo., N. Mex., Calif. (West Indies,
 Europe, Madagascar.)

893. *Trigonotylus tarsalis* (Rent.)

- Reuter, Caps. Am. Bor., p. 60, 1876, *Callimiris*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907, *Callimiris*.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907, *Callimiris*.
 Reuter, Neark. Caps., p. 6, 1909.

Localities: Kans., Wis., Texas, Manitoba.

894. **Trigonotylus uhleri** (Reut.)

Reuter, Caps. Am. Bor., p. 60, 1876, *Callimiris*.
 Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900, *Callimiris*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Callimiris*.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Localities: N. J., "N. Am."

895. **Trigonotylus confusus** Reut.

Reuter, Neark. Caps., p. 6, 1909.

Locality: Md.

Genus **Teratocoris** Fieb.

Haplotype *antennatus* (Boh.)

Fieber, Wien. Ent. Monat., ii, p. 302, 1858.
 Fieber, Europ. Hemip., pp. 63, 245, 1861.
 Thomson, Opusc. Ent., iv, p. 416, 1871.
 Walker, Cat. Heter., vi, p. 41, 1873.
 Reuter, Genera Cimic. Eur., p. 9, 1875.
 Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 7, 1875.
 Atkinson, Cat. Capsidae, p. 37, 1889.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 144, 1906.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

896. **Teratocoris discolor** Uhl.

Uhler, Ent. Am., iii, p. 68, 1887.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
 Gillette and Baker, Hemip. Colo., p. 29, 1895.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
 Localities: Quebec, Ont., Mass., N. Y., Mo., Colo.

897. **Teratocoris herbaticus** Uhl.

Uhler, Ent. Am., iii, p. 67, 1887.
 Reuter, Ent. Tidskr., xxviii, p. 81, 1907.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 7, 1909.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 29, 1912.
§miraria Atkinson, Cat. Capsidae, p. 38, 1889.
 Localities: Labrador. (Norway, Sweden.)

898. **Teratocoris saundersi** D. & S.

Douglas and Scott, Ent. Mo. Mag., v, p. 260, 1869.
 Reuter, Rev. Crit. Caps., ii, p. 11, 1875.
 Saunders, Heter. Brit. Isds., p. 226, pl. 20, fig. 8, 1892.
 Hieber, Synop. deut. Blindw., i, p. 61, 1894.
 Reuter, Ent. Tidskr., xxviii, p. 81, 1907.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 7, 1909.

- Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 29, note, 1912.
 †*longicornis* (Sahlberg). Monog. Geoc. Fenn., p. 87, 1848, *Miris*.
 †*antennatus* (Flor), Rhyng. Livl., i, p. 433, 1860, *Miris*.
flori J. Sahlberg, Not. Sällsk. Fauna Flora Fenn., xi, p. 290, 1871.
 †*longicornis* Uhler, Hemip. Colo., p. 29, 1895.
carieis Kirkaldy, Can. Ent., xli, p. 390, 1909 (n.n. for *longicornis* Uhl.).
 Localities: Colo. (Europe.)

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- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.
 Van Duzee, Check List Hemip., p. 36, 1916.
Lopidae, Douglas and Scott, Brit. Hemip., pp. 34, 474, 1865 (as family).
 Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 17, 1875, Div. *Loparia*.
 Reuter, Genera Cimic. Eur., p. 6, 1875, Div. *Loparia*.
 Reuter, Caps. Am. Bor., p. 63, 1876, Div. *Loparia*.
 Distant, Biol. Centr. Am., Heter., i, p. 251, 1883, *Loparia*.
 Uhler, Check List, p. 17, 1886, *Loparia*.
 Provancher, Pet. Faune Ent. Can., iii, p. 96, 1886, *Loparides*.
Restheniaria Reuter, Festschr. f. Palmen., i, pp. 20, 28, 1905, Division.
 Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Resthenini*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 129, 232, 256, 1910,
 Oshanin, Kat. Palae. Hemip., p. 68, 1912, Tribe *Resthenaria*. [Division.
 Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 7, 1913 (Key).

Genus *Platytyellus* Reut.

Orthotype *nigripennis* (Stål)

- Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 71, 1907.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 40, 1912. [scription).
 Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 9, 22, 1913 (de-
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
 †*Resthenia* Reuter, Caps. Am. Bor., p. 64, 1876.
 Distant, Biol. Centr. Am., Heter., i, p. 251, 1883.
 Provancher, Pet. Faune Ent. Can., iii, p. 105, 1887.
 [Genus *Prepops* seems to be distinct.]

899. *Platytyellus insitivus* (Say)

- Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 785; Compl. Writ., 1, p.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 399, 1878, *Resthenia*. [340, *Capsus*.
 Uhler, Stand. Nat. Hist., ii, p. 286, 1884, *Resthenia*.
 Van Duzee, Can. Ent., xix, p. 70, 1887, *Resthenia*.
 Harrington, Ottawa Nat., vi, p. 27, 1892, *Resthenia*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Resthenia*.
 Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909, *Resthenia*.
 Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125, *Resthenia*.
 Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia*.
rastronclae (Walker), Cat. Heter., vi, p. 92, 1873, *Capsus*.
 Slosson, Ent. News, v, p. 5, 1894, *Resthenia*.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904, *Resthenia*.
 Localities: Ont., N. H., N. Y., N. J., Pa., Fla., Colo.

900. *Platytyellus divisus* (H. S.)

Herrich-Schaeffer, Wans. Ins., ix, p. 167, fig. 960, 1853, *Capsus* (description [on page 166 under name *Capsus tetrastigma*]).

Stål, Stet. Ent. Zeit., xxiii, p. 317, 1862, *Resthenia*.

Walker, Cat. Heter., vi, p. 91, 1873, *Capsus*.

Distant, Biol. Centr. Am., Heter., i, p. 258, 1883, *Resthenia*.

Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906, *Resthenia*.

Localities: Fla., Texas. (Mexico.)

901. *Platytyellus ornaticollis* (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 317, 1862, *Resthenia*.

Reuter, Caps. Am. Bor., p. 64, 1876, *Resthenia*.

Distant, Biol. Centr. Am., Heter., i, p. 253, pl. 22, fig. 5, 1883, *Resthenia*.

Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906, *Resthenia*.

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 26, 1913 (description) *bicinctus* Walker, Cat. Heter., vi, p. 100, 1873, *Capsus*. [tion).

Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904, *Resthenia*.

Localities: Texas. (Mexico.)

902. *Platytyellus confraternus* (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872, *Resthenia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877, *Resthenia*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 399, 1878, *Resthenia*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia*.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia*.

maculicollis (Reuter), Caps. Am. Bor., p. 65, 1876, *Resthenia*.

Gillette and Baker, Hemip. Colo., p. 30, 1895, *Resthenia*.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia*.

Banks, Cat. Neare. Hemip., p. 40, 1910, *Resthenia*.

Localities: N. Y., N. J., Pa., Ga., Fla., Mich., Colo., Texas.

903. *Platytyellus robustus* Reut.

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 32, 1913.

Locality: Ga.

904. *Platytyellus atripennis* (Reut.)

Reuter, Caps. Am. Bor., p. 65, 1876, *Resthenia*.

Gillette and Baker, Hemip. Colo., p. 29, 1895, *Resthenia*.

Localities: Colo., Texas.

905. *Platytyellus intercidendus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 426, pl. 37, fig. 1, 1893, *Resthenia*.

Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 170, 1909, *Resthenia* (notice).

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 26, 1913 (description).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia*. [tion).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

§basivittis Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914 [(error for *bivittis*).

Localities: Fla., Calif. (Mexico.)

906. *Platytyellus nigricollis* (Reut.)

Reuter, Caps. Am. Bor., p. 65, 1876, *Resthenia*.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia*.

Localities: N. Y., N. J., Ohio.

907. **Platytylellus persignandus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 357, pl. 22, fig. 21, 1883, *Resthenia*.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906, *Resthenia*.

Localities: Arizona (perhaps *nigricollis*). (Mexico.)

908. **Platytylellus bivittis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 318, 1862, *Resthenia*.

Reuter, Caps. Am. Bor., p. 64, 1876, *Resthenia*.

Distant, Biol. Centr. Am., Heter., i, p. 256, pl. 24, fig. 21, 1883, *Resthenia*.

Gillette and Baker, Hemip. Colo., p. 29, 1895, *Resthenia*.

[*metopus?* (description).]

Reuter, Of. Finska Vet.-Soc. Forh., Iv, Afd. A, No. 18, p. 49, 1913, *Oncero-*

Localities: Colo., Utah, Idaho. (Mexico.)

909. **Platytylellus insignis** (Say)

Say, Heter. N. Harm., p. 22, 1832; Fitch reprint, p. 787; Compl. Writ., i, p.

[342, *Capsus*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872, *Resthenia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Resthenia*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Resthenia*.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878, *Resthenia*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 400, 1878, *Resthenia*.

Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887, *Resthenia*.

Harrington, Ottawa Nat., vi, p. 27, 1892, *Resthenia*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia*.

Slosson, Ent. News, v, p. 5, 1894, *Resthenia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Resthenia*.

Gillette and Baker, Hemip. Colo., p. 30, 1895, *Resthenia*.

Montgomery, Ent. News, xiii, p. 13, 1902, *Resthenia*.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Resthenia*.

Barber, Brookl. Inst. Sci. Bul., i, p. 278, 1906, *Resthenia*.

Moore, Can. Ent., xxxix, p. 163, 1907, *Resthenia*.

Van Duzee, Can. Ent., xl, p. 112, 1908, *Resthenia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909, *Resthenia*.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia*.

Parshley, Psyche, xxi, p. 141, 1914, *Resthenia*.

Localities: Ont., Me., N. H., Mass., N. Y., N. J., Pa., Ga., Fla.,
Ia., Texas.

910. **Platytylellus rubrovittatus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 318, 1862, *Resthenia*.

Reuter, Caps. Am. Bor., p. 65, 1876, *Resthenia*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia*.

Localities: Mass., Fla., Colo., Texas. (Mexico.)

911. **Platytylellus circumcinctus** (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 787; Compl. Writ., i, p.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Lopidea*. [343, *Capsus*.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 249, 1894, *Resthenia*.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia*.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia*.

Localities: N. J., Pa., Ind., Utah. (Mexico.)

912. *Platytyellus incisus* (Walk.)Walker, Cat. Heter., vi, p. 92, 1873, *Capsus*.Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 204, 1904, *Resthenia*.

Locality: Fla.

[*Platytyellus eremicola* Uhl. MS]Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Resthenia*.

Locality: Colo.

Genus *Opistheuria* Reut.Logotype *latipennis* (Stål)

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 170, 1907.

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 10, 50, 1913

[names *latipennis* type].

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

913. *Opistheuria clandestina* Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 110, 1915.

[1909.

Resthenia sp. (No. 143) Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181,

Locality: Fla.

Genus *Oncerometopus* Reut.Logotype *nigriclavus* Reut.

Reuter, Caps. Am. Bor., p. 65, 1876.

[scription).

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 9, 47, 1913 (de-

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 136, 1906 (names *nigriclavus* type).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

914. *Oncerometopus nigriclavus* Reut.

Reuter, Caps. Am. Bor., p. 66, 1876.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 249, 1894.

Gillette and Baker, Hemip. Colo., p. 30, 1895.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.

Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n. s. 113, p. 40, 1913.

Localities: Kans., Colo., Texas, Ariz., Calif.

915. *Oncerometopus ruber* Reut.

Reuter, Caps. Am. Bor., p. 66, 1876.

Gillette and Baker, Hemip. Colo., p. 30, 1895.

Localities: Colo., Texas.

TRIBE CAPSINI (Reut.)

Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883, Div. *Capsaria*.Atkinson, Cat. Capsidae, p. 52, 1889, Div. *Capsaria*.Reuter, Hemip. Gymn. Eur., v, p. 5, 1896, Div. *Capsaria*.

Distant, Fauna Brit. Ind., Rhyn., ii, p. 454, 1904.

Reuter, Festsch. f. Palmén, i, pp. 21, 29, 1905, Div. *Capsaria*.

Kirkaldy, Can. Ent., xxxviii, p. 372, 1906.

Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 45, 1909, Div. *Capsaria*.

Reuter, Nark. Caps., p. 9, 1909, Div. *Capsaria*. (Key.) [Capsaria.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 129, 133, 156, 1910, Div.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.

Van Duzee, Check List Hemip., p. 37, 1916.

Miridiaria Reuter, Rev. Crit. Caps., i, p. 76, 1875 (Division).

Reuter, Genera Cimic. Eur., p. 5, 1875 (Division).

Uhler, Check List, p. 17, 1886.

DIVISION MYRMECORARIA Reut.

Reuter, Hemip. Gymn. Eur., iii, p. 564, 1883.

Reuter, Festsch. f. Palmen, i, pp. 22, 29, 1905.

Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Myrmecorini*.

Oshanin, Verz. Palae. Hemip., i, p. 647, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

Van Duzee, Check List Hemip., p. 37, 1916.

Genus **Mimoceps** Uhl.

Logotype *insignis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 83, 1890.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906 (names *insignis* type).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

916. *Mimoceps insignis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 84, 1890.

Localities: N. Y., Ill.

917. *Mimoceps gracilis* Uhl.

*Van Duzee, Can. Ent., xxi, p. 4, 1889 (MS name).

Uhler, Trans. Md. Acad. Sci., i, p. 85, 1890.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.

Van Duzee, Can. Ent., xlv, p. 322, 1912.

[*Globiceps*.

†flavomaculatus Provancher, Pet. Faune Ent. Can., iii, p. 147, 1887,

Localities: Ont., N. Y., Ia., Utah.

DIVISION PITHANARIA (D. & S.)

Pithanidae Douglas and Scott, Brit. Hemip., pp. 28, 280, 1865 (Family).

Genus **Pithanus** Fieb.

Haplotype *maerkelii* H. S.

Fieber, Wien. Ent. Monat., ii, p. 303, 1858.

Fieber, Europ. Hemip., pp. 61, 239, 1861.

Douglas and Scott, Brit. Hemip., p. 280, 1865.

Reuter, Genera Cimic. Eur., p. 25, 1875.

Reuter, Rev. Crit. Caps., i, p. 87, ii, p. 103, 1875.

Hieber, Synop. deut. Blindw., i, p. 26, 1894.

Reuter, Festsch. f. Palmen, i, pp. 23, 31, 1905.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 134, 1910.

918. *Pithanus maerkelii* (H. S.)

Herrieh-Schaeffer, Wanz. Ins., iv, p. 78, fig. 406, 1839, *Capsus*.

Kirschbaum, Rhyn. geg. v. Wiesbd., i, Capsidae, p. 44, 1855, *Capsus*.

Flor, Rhyn. Lvl., i, p. 513, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 239, 1861.

- Walker, Cat. Heter., vi, p. 88, 1873, *Capsus*.
 Douglas and Scott, Brit. Hemip., p. 281, pl. 10, fig. 3, 1865.
 Reuter, Rev. Crit. Caps., ii, p. 103, 1875.
 Saunders, Trans. Ent. Soc. Lond. for 1875, p. 254.
 Atkinson, Cat. Capsidae, p. 30, 1889.
 Saunders, Hemip. Heter., Brit. Isds., p. 219, pl. 20, fig. 1, 1892.
 Hieber, Synop. deut. Blindw., i, p. 26, 1894.
 Olsen, Bul. Brookl. Ent. Soc., x, p. 34, 1915.
 Parshley, Ent. News, xxvii, p. 104, 1916. [Capsus.
flavolimbatus (Boheman), Kong. Vet. Akad. Handl. for 1849, p. 252,
vittatus (Dahlbom), Kong. Vet. Akad. Handl. for 1850, p. 205, *Cyllocoris*.
 Localities: Nov. Sco., Me., N. Y. (Europe.)

DIVISION PHYTOCORARIA (Dong. & Scott)

- Douglas and Scott, Brit. Hemip., pp. 29, 299, 1865, Fam. *Phytocoridae* (part).
 Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 19, 1875.
 Reuter, Genera Cimic. Eur., pp. 6, 10, 1875.
 Reuter, Deut. Ent. Zeit., xxi, p. 25, 1877.
 Uhler, Check List, p. 18, 1886 (part).
 Provancher, Pet. Faune Ent. Can., iii, p. 96, 1886, *Phytocorides*.
 Distant, Fauna Brit. Ind. Rhyn., ii, p. 448, 1904.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.
 Van Duzee, Check List Hemip., p. 37, 1916.
Garganaria Reuter, Festschr. f. Palmen, i, pp. 18, 28, 1905 (Division).

Genus *Paraxenetus* Reut.

Logotype *bracteatus* (Dist.)

- Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 46, 1909.
 Reuter, Neark. Caps., pp. 9, 13, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

919. *Paraxenetus guttulatus* (Uhl.)

- Uhler, Ent. Am., iii, p. 150, 1887, *Eucrocoris*.
 Smith, Cat. Ins. N. J., edn. 3, 132, 1900, *Eucrocoris*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Eucrocoris*.
 Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906, *Eucrocoris*.
 Banks, Ent. News, xviii, p. 425, 1907, *Eucrocoris*.
 Reuter, Neark. Caps., p. 13, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Localities: N. Y., N. J., Md., Ill., Texas.

Genus *Neurocolpus* Reut.

Haplotype *nubilus* (Say)

- Reuter, Caps. Am. Bor., p. 69, 1876.
 Reuter, Neark. Caps., p. 10, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

920. *Neurocolpus nubilus* (Say)

- Say, Heter. N. Harm., p. 22, 1832; Fitch reprint, p. 786; Compl. Writ., i, p.
 Reuter, Caps. Am. Bor., p. 70, 1876. [341, *Capsus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 413, 1877, *Phytocoris*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Phytocoris*.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 403, 1878, *Phytocoris*.
 Provancher, Pet. Faune Ent. Can., iii, p. 111, 1887.
 Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
 Townsend, Can. Ent., xxiv, p. 193, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894.
 Gillette and Baker, Hemip. Colo., p. 33, 1895.
 Smith, Cat. Ins. N. J., edn. 3, p. 129, 1900.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 252, pl. 6, fig. 24.
 Needham, Psyche, x, p. 26, 1903.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 110, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
 Barber, Brookl. Inst. Sci. Bul., i, p. 279, 1906.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
 Parshley, Psyche, xxi, p. 141, 1914.
hirsutulus (Walker), Cat. Heter., vi, p. 95, 1873, *Capsus*.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904.
 [*Capsus affinis* Distant seems to be distinct from this species.]
 Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., N. C.,
 Ga., Fla., Ohio, Colo., Texas.

921. *Neurocolpus mexicanus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 262, pl. 23, fig. 5, 1883; p. 427, 1893.
 Reuter, Neark. Caps., p. 13, 1909.
 Localities: N. Mex., Ariz.

Genus *Phytocoris* Fall.

Type *populi* (Linn.)

- Fallén, Spec. Nova Hemip., p. 10, 1814.
 Fallén, Hemip. Suec., Cimic., p. 76, 1829.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 42, 1835.
 Burmeister, Handb. d. Ent., ii, p. 265, 1835.
 Spinola, Essai sur les Hémip., p. 187, 1837 (1840).
 Blanchard, Hist. des Ins. Hémip., p. 136, 1840.
 Westwood, Intr. Mod. Classif. Ins., Synop., p. 122, 1840 (names *populi* type).
 Amyot and Serville, Hémip., p. 278, 1843.
 Spinola, Tavola Sinot., p. 43, 1850.
 Kirschbaum, Rhyn. Geg. v. Wiesbd., Caps., pp. 8, 38, 1855.
 Flor, Rhyn. Livl., i, p. 411, 1860.
 Fieber, Wien. Ent. Monat., ii, p. 306, 1858.
 Fieber, Europ. Hemip., pp. 65, 258, 1861.
 Douglas and Scott, Brit. Hemip., p. 301, 1865.
 Thomson, Opusc. Ent., iv, p. 417, 1871.
 Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 19, 1875.
 Reuter, Genera Cimic. Eur., p. 10, 1875.
 Provancher, Pet. Faune Ent. Can., iii, p. 107, 1887.

Reuter, Hemip., Gymn. Eur., v, p. 242, 1888.

Reuter, Neark. Caps., pp. 9, 14, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916. [Reut.).

Compsocerochoris Reuter, Caps. Am. Bor., p. 70, 1876 (type *annulicornis*

Callodemus Uhler, Hemip. Colo., p. 33, 1895 (haplotype *laevis* Uhl.).

922. *Phytocoris lasiomerus* Reut.

Reuter, Neark. Caps., p. 34, 1909.

Parshley, Psyche, xxi, p. 141, 1914.

†*scrupus* Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887.

†*pallidicornis* Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889.

Harrington, Ottawa Nat., vi, p. 27, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.

Van Duzee, Can. Ent., xxxviii, p. 407, 1906.

Moore, Can. Ent., xxxix, p. 163, 1907.

Van Duzee, Can. Ent., xl, p. 113, 1908.

†*annulicornis* Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905. [123, 1893.

Localities: Quebec, Ont., Me., N. Y., Ia., Colo.

923. *Phytocoris pallidicornis* Reut.

Reuter, Caps. Am. Bor., p. 69, 1876.

Gillette and Baker, Hemip. Colo., p. 33, 1895.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Parshley, Psyche, xxi, p. 141, 1914.

§*pallicornis* Reuter, Neark. Caps., p. 33, 1909.

Localities: Me., Mass., N. Y., Wis., Colo.

924. *Phytocoris laevis* (Uhl.)

Uhler, Hemip. Colo., p. 33, 1895, *Callodemus*.

Reuter, Neark. Caps., p. 14, 1909.

Localities: Colo.

925. *Phytocoris interspersus* Uhl.

Uhler, Hemip. Colo., p. 32, 1895.

Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.

Reuter, Neark. Caps., p. 19, 1909.

a. var. signifer Reut.

Reuter, Neark. Caps., p. 19, 1909.

Localities: Colo., Utah, N. Mex., Calif.

926. *Phytocoris canescens* Reut.

Reuter, Neark. Caps., p. 30, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.

Localities: Calif., Utah?

927. *Phytocoris minutulus* Reut.

Reuter, Neark. Caps., p. 24, 1909.

Localities: N. Y., Md.

928. *Phytocoris antennalis* Reut.

Reuter, Neark. Caps., p. 32, 1909.

Localities: Mass., N. Y., D. C.

929. *Phytocoris bipunctatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 77, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

†*antennalis* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.

Locality: Fla.

930. *Phytocoris annulicornis* (Reut.)

Reuter, Caps. Am. Bor., p. 70, 1876, *Compsocrococoris*.

Distant, Biol. Centr. Am., Heter., i, p. 261, 1883, *Compsocrococoris*.

Riley, N. Am. Fauna, vii, p. 249, 1893, *Compsocrococoris*.

? Gillette and Baker, Hemip. Colo., p. 33, 1895, *Compsocrococoris*.

? Osborn, Ohio Nat., i, p. 12, 1900, *Compsocrococoris*.

? Montgomery, Ent. News, xiii, p. 13, 1902, *Compsocrococoris*.

? Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Compsocrococoris*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904, *Compsocrococoris*.

Reuter, Neark. Caps., p. 33, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Parshley, Psyche, xxi, p. 141, 1914.

Localities: Me., Mass.(?), Pa.(?), Ohio(?), Texas, N. Mex., Colo., Calif.

931. *Phytocoris angustulus* Reut.

Reuter, Neark. Caps., p. 29, 1909.

Locality: W. Va.

932. *Phytocoris fenestratus* Reut.

Reuter, Neark. Caps., p. 24, 1909.

Localities: D. C., N. C., Ga.

933. *Phytocoris inops* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 402, 1878.

Uhler, Check List., p. 18, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 110, 1887.

Gillette and Baker, Hemip. Colo., p. 33, 1895, *Neurocolpus*.

Smith, Cat. Ins. N. J., edn. 2, p. 129, 1900, *Paracalocoris*.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 235, 1916.

Localities: Ont., Mass., N. Y., Pa., W. Va., Fla.

934. *Phytocoris eximius* Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.

Provancher, Pet. Faune Ent. Can., iii, p. 119, 1887.

Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889.

Harrington, Ottawa Nat., vi, p. 27, 1892.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Uhler, Proc. Ent. Soc. Wash., ii, p. 376, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 252, 1894.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191.

Montgomery, Ent. News, xiii, p. 13, 1902.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.

Van Duzee, Can. Ent., xxxviii, p. 407, 1906.

- Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.
Reuter, Neark. Caps., p. 23, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Parshley, Psyche, xxi, p. 141, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 17, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C.,
Fla., Texas, Calif. (West Indies.)

935. *Phytocoris heidemanni* Reut.

- Reuter, Neark. Caps., p. 27, 1909.
Localities: N. Mex., Ariz., Nev.

936. *Phytocoris subnitidulus* Reut.

- Reuter, Neark. Caps., p. 26, 1909.
Localities: Md., D. C.

937. *Phytocoris vittatus* Reut.

- Reuter, Neark. Caps., p. 28, 1909.
Locality: N. Y.

938. *Phytocoris fumatus* Reut.

- Reuter, Neark. Caps., p. 25, 1909.
Localities: D. C., Ga.

939. *Phytocoris validus* Reut.

- Reuter, Neark. Caps., p. 31, 1909.
Locality: Colo.

940. *Phytocoris lineatus* Reut.

- Reuter, Neark. Caps., p. 30, 1909.
Locality: Colo.

941. *Phytocoris palmeri* Reut.

- Reuter, Neark. Caps., p. 32, 1909.
†*annulicornis* Van Duzee, Can. Ent., xl, p. 113, 1908, *Compsocrococoris*.
Locality: Quebec.

942. *Phytocoris bakeri* Reut.

- Reuter, Neark. Caps., p. 28, 1909.
Locality: Calif.

943. *Phytocoris van* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 478, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
Locality: Calif.

944. *Phytocoris roseus* (Uhl.)

- Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 253, 1894, *Compsocrococoris*.
Reuter, Neark. Caps., p. 27, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.
Locality: Calif.

945. *Phytocoris ramosus* Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 252, 1894.

Localities: Ariz., Calif.

946. *Phytocoris formosus* Van D.Van Duzee, Check List Hemip., p. 37, 1916 (n.n. for *reuteri* Van D.).||*reuteri* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 18, 1914.

Locality: Calif.

947. *Phytocoris jucundus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 17, 1914.

Locality: Calif.

948. *Phytocoris cunealis* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 16, 1914.

Locality: Calif.

949. *Phytocoris infuscatus* Reut.Reuter, Neark. Caps., p. 20, 1909 (as var. of *puella*).

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, pp. 16, 17, 1914

Localities: Ont., N. Y., D. C., N. C.

950. *Phytocoris rufoscriptus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.

Locality: Calif.

951. *Phytocoris puella* Reut.

Reuter, Caps. Am. Bor., p. 69, 1876.

Heidemann, Proc. Ent. Soc., Wash., ii, p. 226, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Moore, Can. Ent., xxxix, p. 163, 1907.

Reuter, Neark. Caps., p. 20, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 129, 1910.

a. var. *confluens* Reut.

Reuter, Neark. Caps., p. 20, 1909.

Localities: Ont., Mass., N. Y., N. J., Md., D. C., N. C., Fla., Kans.

952. *Phytocoris tibialis* Reut.

Reuter, Caps. Am. Bor., p. 68, 1876.

Van Duzee, Can. Ent., xix, p. 70, 1887.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Harrington, Ottawa Nat., viii, p. 66, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.

Reuter, Neark. Caps., p. 20, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Van Duzee, Can. Ent., xlv, p. 320, 1912.

[*Compsocerochoris*.*vilis* Distant, Biol. Centr. Am., Heter., i, p. 260, pl. 25, fig. 13, 1883.†*pallidicornis* Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887.Localities: Ont., N. Y., N. J., Pa., Md., Va., Wis., Texas, Ia.
(Neotropical.)

953. *Phytocoris conspersipes* Reut.

Reuter, Neark. Caps., p. 22, 1909.

†*breviusculus* Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.

Localities: Ont., Mass., N. Y., N. J., D. C.

954. *Phytocoris brevisculus* Reut.

Reuter, Caps. Am. Bor., p. 68, 1876.

Reuter, Neark. Caps., p. 21, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Localities: Kans., Colo., Texas.

955. *Phytocoris politus* Reut.

Reuter, Neark. Caps., p. 21, 1909.

Localities: N. Mex., Ariz., Nevada.

956. *Phytocoris vanduzeei* Reut.

Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 7, p. 30, 1912 (n.n. for Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912. [*marmoratus* Van D.

||*marmoratus* (Van Duzee), Trans. Am. Ent. Soc., xxxvi, p. 78, 1910,

[*Dichrooscytus*

Locality: N. Mex.

957. *Phytocoris rufus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 477, 1912.

Locality: Fla.

958. *Phytocoris mundus* Reut.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892 (MS name).

Reuter, Neark. Caps., p. 18, 1909.

Localities: Md., D. C.

Genus *Ecertobia* Reut.Haplotype *decora* Reut.

Reuter, Neark. Caps., pp. 10, 36, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

959. *Ecertobia decora* Reut.

Reuter, Neark. Caps., p. 36, 1909.

Localities: Colo.

Genus *Creontiades* Dist.Haplotype *rubrinerve* (Stål)

Distant, Biol. Centr. Am., Heter., i, p. 237, 1883.

Kirkaldy, Trans. Am. Ent. Soc., xxxiii, p. 138, 1906.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 157, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

Pantiliodes Noualhier, Ann. Soc. Ent. Fr., lxii, p. 15, 1893 (haplotype

Reuter, Hemip. Gymn. Eur., v, p. 237, 1896. [*punctum* Reut.).

Kangra Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 257.

960. *Creontiades rubrinervis* (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862, *Megacoelum*.

Distant, Biol. Centr. Am., Heter., i, p. 237, pl. 23, fig. 12, 1883.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894, *Calocoris*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191, *Calocoris*.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907; ix, p. 179, 1909.
 Reuter, Of. Finska Vet. Soc. Forh., lv, Afd. A, No. 18, p. 4, 1913 (descrip-
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914. [tion).
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.

Localities: Fla., Calif.

961. *Creontiades filicornis* (Walk.)

- Walker, Cat. Heter., vi, p. 96, 1873, *Capsus*.
 Uhler, Check List, p. 18, 1886, *Megacoelum*.
 Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 106, 1904.

Locality: Fla.

962. *Creontiades signatus* (Dist.)

- Distant, Biol. Centr. Am., Heter., i, p. 269, pl. 23, fig. 11, 1884, *Megacoelum*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.

Locality: Texas.

963. *Creontiades femoralis* Van D.

- Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.

Locality: Calif.

964. *Creontiades debilis* Van D.

- Van Duzee, Pomona Jl. Ent. Zool., vii, p. 111, 1915.

Localities: Ga., Fla.

Genus *Allorhinocoris* Reut.

Haplotype *flavus* J. Sahlbg.

- Reuter, Pet. Nouv. Ent., ii, p. 33, 1876.
 Reuter, Hemip. Gymn. Eur., v, pp. 322, 356, 1896.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

965. *Allorhinocoris flavus* J. Sahlbg.

- J. Sahlberg, Vet. Akad. Handl., xvi, No. 4, p. 24, 1878.
 Atkinson, Cat. Capsidae, p. 53, 1889.
 Oshanin, Verz. Palae. Hemip., i, p. 650, 1909.
 †*prasinius* Reuter, Pet. Nouv. Ent., ii, No. 147, p. 33, 1876.

Reuter, Hemip. Gymn. Eur., v, p. 323, 1896.

Localities: Oregon. (Palearctic.)

Genus *Adelphocoris* Reut.

Type *seticornis* Fabr.

- Reuter, Of. Finska Vet. Soc. Forh., xxxviii, p. 168, 1896.
 Reuter, Hemip. Gymn. Eur., v, pp. 209, 354, 1896.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 138, 1906.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

966. *Adelphocoris rapidus* (Say)

- Say, Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 783; Compl. Writ., i, p.
 Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861, *Capsus*. [339, *Capsus*.
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 410, 1872, *Calocoris*.
 Walker, Cat. Heter., vi, p. 91, 1873, *Capsus*.
 Reuter, Caps. Am. Bor., p. 70, 1876, *Calocoris*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877, *Calocoris*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Calocoris*.

- Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Calocoris*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878, *Deraeocoris*.
 Provancher, Pet. Faune Ent. Can., iii, p. 113, 1887, *Calocoris*.
 Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889, *Calocoris*.
 Harrington, Ottawa Nat., vi, p. 27, 1892, *Calocoris*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Calocoris*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Calocoris*.
 Slosson, Ent. News, v, p. 5, 1894, *Calocoris*.
 Gillette and Baker, Hemip. Colo., p. 34, 1895, *Calocoris*.
 Montgomery, Ent. News, xiii, p. 13, 1902, *Calocoris*.
 Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Calocoris*.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Calocoris*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Calocoris*.
 Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906, *Calocoris*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906; pt. 2, p. 159,
 Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Calocoris*. [1907, *Calocoris*.
 Moore, Can. Ent., xxxix, p. 163, 1907, *Calocoris*.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Reuter, Neark. Caps., p. 36, 1909.
 Bueno, Can. Ent., xlii, p. 29, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
 Webster and Stoner, Jl. N. Y. Ent. Soc., xxii, p. 229, 1914.
 Parshley, Ent. News, xxvi, p. 208, 1915 (Anatomy).
multicolor Herrich-Schaeffer, Wanz. Ins., viii, p. 19, fig. 795, 1848, *Capsus*.
 Reuter, Caps. Am. Bor., p. 70, 1876, *Calocoris*.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
 Miss., Wis., Kans., Ia., Colo., Texas, N. Mex., Ariz., Calif.

967. *Adelphocoris superbus* (Uhl.)

- Uhler, Wheeler's Rept. 100th Merid., v, p. 838, pl. 42, fig. 3, 1875, *Calocoris*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Calocoris*.
 Townsend, Can. Ent., xxiv, p. 193, 1892, *Calocoris*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Calocoris*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, 123, 1893, *Calocoris*.
 Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894, *Calocoris*.
 Gillette and Baker, Hemip. Colo., p. 34, 1895, *Calocoris*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Calocoris*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906; pt. 2, p. 159, 1907,
 Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907. [Calocoris.
 Reuter, Neark. Caps., p. 36, 1909.
 Localities: Ia., Kans., Colo., Utah, N. Mex., Ariz.

968. *Adelphocoris palmeri* (Uhl.)

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 410, 1872, *Calocoris*.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 838, pl. 42, fig. 4, 1875, *Calocoris*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Calocoris*.
 Localities: Colo., Ariz.

Genus *Stenotus* Jak.

Type *sarcptanus* Jak. = *binotatus* Fabr.

- Jakowleff, Bul. Soc. Nat. Mosc., lii, pt. 2, p. 288, 1877.
 Reuter, Hemip. Gymn. Eur., v, pp. 122, 351, 1896.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *sarcptanus* type).

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 7, p. 10, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

||*Oncognathus* Fieber, Wien. Ent. Monat., ii, p. 303, 1858.

Fieber, Europ. Hemip., pp. 63, 246, 1861.

Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 40, 1875.

Reuter, Genera Cimic. Eur., p. 15, 1875.

Koraciocapsus Kirkaldy, Trans. Ent. Soc. Lond. for 1903, pt. 2, p. 280.

969. **Stenotus binotatus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 172, 1794, *Lygaeus*.

Fabricius, Syst. Rhyng., p. 235, 1803, *Lygaeus*.

Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus*.

Fallén, Hemip. Suec. Cimic., p. 78, 1829, *Phytocoris*.

Herrieh-Schaeffer, Nomen. Ent., i, p. 50, 1835, *Capsus*.

Herrieh-Schaeffer, Wanz. Ins., iii, p. 77, fig. 296, 1835, *Capsus*.

Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 59, 1855, *Capsus* (*Draecocoris*).

Fieber, Wien. Ent. Monats., ii, p. 303, 1859, *Oncognathus*.

Flor, Rhyn. Livl., i, p. 499, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 246, 1861, *Oncognathus*.

Douglas and Scott, Brit. Hemip., p. 323, 1865, *Draecocoris*.

Thomson, Opusc. Ent., iv, p. 422, 1871, *Capsus* (*Phytocoris*).

Reuter, Rev. Crit. Caps., ii, p. 41, 1875, *Oncognathus*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Oncognathus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Oncognathus*.

Howard, Insect Life, v, p. 90, 1892, *Oncognathus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Oncognathus*.

Reuter, Hemip. Gymn. Eur., v, p. 123, pl. 5, fig. 5, 1896.

Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Oncognathus*.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Oncognathus*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Van Duzee, Ottawa Nat., xxvi, p. 69, 1912. [ii, p. 609, 1806, *Cimex*.

paykulli (Turton), in Linnaeus, Syst. Nat., Gmelin's edn. 13, Eng. Trans.,

sarcptanus Jakowleff, Bul. Soc. Nat. Mose., lii, p. 289, 1877.

Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Mich., Br. Col.
(Palearctic.)

Genus **Ganocapsus** Van D.

Orthotype *filiformis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

970. **Ganocapsus filiformis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.

Locality: Ariz.

Genus **Garganus** Stål

Logotype *albidivittis* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862.

Distant, Biol. Centr. Am., Heter., i, p. 266, 1884.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *albidivittis* type).

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 49, 1909.

Reuter, Neark. Caps., pp. 10, 37, 1909.

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 6, 1913 (description).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

971. **Garganus fusiformis** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 789; Compl. Writ., i, p.

Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.

[344, *Capsus*.

Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris*.

Van Duzee, Can. Ent., xix, p. 72, 1887.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Seiss, Ent. News, viii, p. 67, 1897.

Oshorn, Ohio Nat., i, p. 12, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.

Tueker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

croceipes Herrich-Schaeffer, Wanz. Ins., viii, p. 16, fig. 792, 1848, *Capsus*.

Walker, Cat. Heter., vi, p. 92, 1873, *Capsus*.

Localities: Ont., Mass., N. Y., N. J., Pa., Fla., Kans.

972. **Garganus albidivittis** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.

Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris*.

Distant, Biol. Centr. Am., Heter., i, p. 266, pl. 25, fig. 23, 1884.

Uhler, Check List, p. 20, 1886.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 166, 1909.

Banks, Cat. Hemip., p. 44, 1910.

[tion).

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 6, 1913 (descrip-

Locality: Texas (Banks).

Genus **Ectopiocerus** Uhl.

Haplotype *anthracinus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 73, 1890.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 33, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

973. **Ectopiocerus anthracinus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 73, 1890.

? Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910 (probably erroneous).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

Localities: Calif. (N. J. doubtful.)

Genus **Irbisia** Reut.

Haplotype *sericans* Stål

Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 57, 1879.

Reuter, Zool. Jahrb. for 1879, p. 509.

Reuter, Rev. d'Ent., ix, p. 253, 1890.

Reuter, Hemip. Gymn. Eur., v, pp. 11, 348, 1896.

Reuter, Neark. Caps., p. 13, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

974. *Irbisia sericans* (Stål)

Stål, Stet. Ent. Zeit., xix, p. 188, 1858, *Leptomerocoris*.

Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 58, 1879.

Bergroth, Ent. Nachr., xi, p. 270, 1885.

Reuter, Hemip. Gymn. Eur., v, p. 12, 1896.

Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.

Essig, Inj. Ben. Ins. Calif., edn. 2, p. 213, 1915.

Localities: Alaska, Oregon, Calif.

975. *Irbisia brachycerus* (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 416, 1872, *Rhopalotomus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Rhopalotomus*.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Capsus* (spelled *brachycorus*).

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 267, 1894, *Thyrillus*.

Gillette and Baker, Hemip. Colo., p. 39, 1895, *Thyrillus*.

Cockerell, Can. Ent., xlii, p. 370, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914.

Essig, Inj. Ben. Ins. Calif., edn. 2, p. 213, 1915.

a. var. *solani* Heid.

Heidemann, Proc. Ent. Soc. Wash., xli, p. 200, 1910.

Localities: Idaho, Utah, N. Mex., Calif., Wash.

Genus *Thyrillus* Uhl.Logotype *pacificus* Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 266, 1894.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

976. *Thyrillus pacificus* (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Rhopalotomus*
[(name only).]

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 415, 1872, *Rhopalotomus* de-

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Rhopalotomus*. [scription).

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914, *Irbisia*.

Essig, Inj. Ben. Ins. Calif., edn. 2, p. 215, 1915.

Localities: Mont. Idaho, Nevada, Calif., Wash., Vanc. Isd.

DIVISION *DICHRROOSCYTARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 34, 477, 1865, *Dichrooscytidae*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 207, 1916.

Genus *Pycnocoris* Van D.Orthotype *ursinus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

977. *Pycnocoris ursinus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914.

Locality: Calif.

Genus *Lampethusa* Dist.Haplotype *anatina* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 303, 1884.

Reuter, Of. Finn. Vet. Akad. Forh., li, No. 25, p. 1, 1909 (description).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

978. *Lampethusa anatina* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 303, pl. 29, fig. 13, 1884; p. 451, 1893.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906.

Localities: Texas, Ariz. (Guatemala.)

Genus *Paracalocoris* Dist.Logotype *jurgiosus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 263, 1883.

Distant, Fauna Brit. Ind., Rhyn., ii, p. 449, 1904.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *jurgiosus* type).

Reuter, Neark. Caps., p. 38, 1909.

Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 51, 1907 (redescribed).

Reuter, Ann. Soc. Ent. Belg., liv, p. 49, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

McAtee, Ann. Ent. Soc. Am., ix, p. 366, 1917 (monograph).

979. *Paracalocoris scrupeus* (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 791; Compl. Writ., i, p.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876, *Phytocoris*. [342, *Capsus*.

Distant, Biol. Centr. Am., Heter., i, p. 271, 1884, *Capsus*.

Van Duzee, Can. Ent., xix, p. 70, 1887, *Phytocoris* (§*scrupens*).

Atkinson, Cat. Capsidae, p. 66, 1889, *Phytocoris*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Phytocoris*.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Phytocoris*.

Reuter, Neark. Caps., p. 39, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

McAtee, Ann. Ent. Soc. Am., ix, p. 368, 1916 (with 15 new varieties).

tetrastigma Herrich-Schaeffer, Wanz. Ins., ix, p. 166, fig. 959, 1853, *Capsus*.

(The description of this species will be found under the name *divisus* on page 167 of the work cited.)

a. var. *externus* (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 16, fig. 791, 1848, *Capsus*.

Walker, Cat. Heter., vi, p. 91, 1873, *Capsus*.

Localities: Ont., Conn., N. Y., N. J., Pa., Ga., Colo.

980. *Paracalocoris colon* (Say)

Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 791; Compl. Writ., i, p.

Uhler, Check List, p. 18, 1886, *Phytocoris*. [346, *Capsus*.

Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887, *Phytocoris*.

Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889, *Phytocoris*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Phytocoris*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Phytocoris*.

Gillette and Baker, Hemip. Colo., p. 32, 1895, *Phytocoris*.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Phytocoris*.

Reuter, Neark. Caps., p. 39, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

Knight, Jl. Econ. Ent., viii, p. 297, 1915. (Oviposition.)

McAtee, Ann. Ent. Soc. Am., ix, p. 381, 1917 (with 3 new varieties).

Localities: Ont., Mass., N. Y., Pa., Kans., Colo.

981. *Paracalocoris deleticus* Reut.

Reuter, Neark. Caps., p. 39, 1909.

McAtee, Ann. Ent. Soc. Am., ix, p. 389, 1917.

Locality: Colo.

982. *Paracalocoris heidemanni* Reut.

Reuter, Neark. Caps., p. 40, 1909.

McAtee, Ann. Ent. Soc. Am., ix, p. 385, 1917 (and 1 variety).

Localities: Md., W. Va.

983. *Paracalocoris multisignatus* Reut.

Reuter, Neark. Caps., p. 40, 1909.

McAtee, Ann. Ent. Soc. Am., ix, p. 387, 1917.

Locality: D. C.

984. *Paracalocoris jurgiosus* (Stål)Stål, Stet. Ent. Zeit., xxiii, p. 320, 1862, *Calocoris*.

Distant, Biol. Centr. Am., Heter., i, p. 263, pl. 25, fig. 17, 1883.

Banks, Cat. Nearc. Hemip., p. 47, 1910.

McAtee, Ann. Ent. Soc. Am., ix, p. 387, 1917.

Localities: Texas. (Mexico.)

984¾. *Paracalocoris adustus* McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 377, 1917.

Locality: N. J.

984¼. *Paracalocoris hawleyi* Knight

Knight, Ann. Ent. Soc. Am., ix, p. 377, 1917 (and 3 varieties).

Localities: Mass., N. Y., Md.

984½. *Paracalocoris limbus* McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 380, 1917.

Locality: Ga.

984¾. *Paracalocoris acceptus* McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 389, 1917.

Locality: N. Mex.

[*Paracalocoris instabilis* Uhl. MS]

Smith, Cat. Ins. N. J., edn. 2, p. 129, 1900.

Locality: N. J.

Genus *Calocoris* Fieb.Logotype *affinis* H. S.

Fieber, Wien. Ent. Zeit., ii, p. 305, 1858.

Fieber, Europ. Hemip., pp. 65, 251, 1861.

Thomson, Opusc. Ent., iv, p. 419, 1871 (as subgenus of *Capsus*).

Reuter, Rev. Crit. Caps., i, p. 80; ii, p. 29, 1875.

Reuter, Genera Cimic. Eur., p. 11, 1875.

Distant, Biol. Centr. Am., Heter., i, p. 266, 1884.

Reuter, Hemip. Gymn. Eur., v, pp. 160, 354, 1896.

[pseudotype].

Distant, Fauna Brit. Ind., Rhyn., ii, p. 451, 1904 (names *lineolatus* Goeze

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *affinis* Fieb. type).
 Reuter, Neark. Caps., p. 11, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

||*Lophyrus Kolenati*, Melet. Ent., ii, p. 106, 1845 (type *serguttatus* Fabr.).

Closterotomus Fieber, Wien. Ent. Monats., ii, p. 306, 1858 (type *bifasciatus* [Fieb. = *biclavatus* H. S.]).

985. *Calocoris norvegicus* (Gmel.)

Gmelin, in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2176, 1788, *Cimex*.

Reuter, Rev. Synon., p. 259, No. 232, 1888.

Reuter, Hemip. Gymn. Eur., v, pp. 204, 377, pl. 7, fig. 4, 1896.

Atkinson, Cat. Capsidae, p. 74, 1889.

Oshanin, Verz. Palae. Hemip., i, p. 698, 1909.

Oshanin, Kat. Palae. Hemip., p. 63, 1912.

Parshley, Psyche, xxi, p. 141, 1914.

†*pabulinus* (Scopoli), Ent. Carn., p. 132, 1763 (vars. 1 and 2), *Cimex*.

Rossi, Fauna Etrus., ii, p. 251, 1790, *Cimex*.

||*bipunctatus* Fabricius Reise Norweg., p. 346, 1779, *Cimex*.

Fabricius, Spec. Ins., ii, p. 358, 1781, *Cimex*.

Fabricius, Syst. Rhyng., p. 235, 1803, *Lygaeus*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 221, 1804, *Miris*.

Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus*.

Zetterstedt, Fauna Lapp., p. 486, 1828, *Phytocoris*.

Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus*.

Herrieh-Schaeffer, Nom. Ent., i, p. 50, 1835, *Capsus*.

Herrieh-Schaeffer, Wanz. Ins., iii, p. 79, fig. 298, 1835, *Capsus*.

Zetterstedt, Ins. Lapp., column 271, 1840, *Phytocoris*.

Rambur, Fauna And., p. 161, 1842, *Phytocoris*.

Meyer, Verz. Rhyn. Schw., p. 51, 1843, *Capsus*.

Herrieh-Schaeffer, Wanz. Ins., Verz., p. 33, 1853, *Capsus*.

Kirschbaum, Rhyn. Wiesb., Caps., p. 60, 1855, *Capsus* (*Deraeocoris*).

Baerensprung, Cat. Hemip. Europ., p. 14, 1860.

Flor, Rhyn. Livl., i, p. 498, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 254, 1861.

Douglas and Scott, Brit. Hemip., p. 319, 1865, *Deraeocoris*.

Thomson, Opusc. Ent., iv, p. 419, 1871.

Reuter, Rev. Crit. Caps., ii, p. 37, 1875.

Reuter, Genera Cimic. Eur., p. 13, 1875.

Reuter, Caps. Am. Bor., p. 71, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 400, 1878, *Deraeocoris*.

Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887.

Bergroth, Ann. Soc. Ent. Fr. for 1891, Bul., p. 66.

Saunders, Hemip. Heter. Br. Isds., pp. 239, 244, 1892.

Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 110, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.

biguttatus (Schränk), Fauna Boic., p. 94, 1801, *Cimex*.

contiguus (Walker), Cat. Heter., vi, p. 95, 1873, *Capsus*.

stramineus (Walker), Cat. Heter., vi, p. 96, 1873, *Capsus*.

Localities: Quebec, Me., Mass., N. Y., N. J., Texas. (Palaeartic.)

986. *Calocoris fulvomaculatus* (De Geer)

- De Geer, Mémoires, iii, p. 294, 1773, *Cimex*.
 Fallén, Monog. Cimic. Suec., p. 81, 1807, *Lygaeus*.
 Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris*.
 Fallén, Hemip. Suec., Cimic., p. 88, 1829, *Phytocoris*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 48, 1835, *Capsus*.
 Herrich-Schaeffer, Wanz. Ins., iii, p. 50, fig. 267, 1836, *Capsus*.
 Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris*.
 Meyer, Verz. Schw. Rhyn., p. 96, 1843, *Capsus*.
 Kolenati, Melet. Ent., ii, p. 109, 1845, *Phytocoris*.
 Kirschbaum, Rhyn. v. Wiesbd. Caps., p. 49, 1855, *Capsus* (*Deracocoris*).
 Baerensprung, Cat. Hemip. Eur., p. 14, 1860.
 Flor, Rhyn. Livl., i, p. 505, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 253, 1861.
 Douglas and Scott, Brit. Hemip., p. 316, 1865, *Deracocoris*.
 Stål, Hemip. Fabr., i, p. 85, 1868.
 Thomson, Opusc. Ent., iv, p. 419, 1871, *Phytocoris*.
 Reuter, Rev. Crit. Caps., ii, p. 33, 1875.
 Reuter, Genera Cimic. Europ., p. 12, 1875.
 Uhler, Check List, p. 18, 1886.
 Reuter, Rev. Synon., p. 255, No. 227, 1888.
 Reuter, Hemip. Gymn. Eur., v, pp. 184, 374, 1896.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 2, p. 159, 1907.
?bimaculatus (Linnaeus), Syst. Nat., edn. 10, p. 449, 1758, *Cimex*.
†rolandri (Retzius), Genera Sp. Ins., p. 88, 1783, *Cimex*.
†genistae (Schrank), Fauna Boic., p. 87, 1801, *Cimex*.
†seticornis (Schrank), Fauna Boic., p. 89, 1801, *Cimex*.
saltatorius (Fabricius), Syst. Rhyn., p. 239, 1803, *Lygaeus*.
femoralis (Lucas), Expl. Alger., Hemip., p. 82, pl. 3, fig. 4, 1849, *Phytocoris*.
distingendus Garbighietti, Cat. Hemip., Ital. Indig., p. 184, 1869.
isabellinus Westhoff, Jahrsb. Westf. Prov. Samm. Wiss. u. Kunst, ix, p. [80, 1880.
simplicicornis Strob. Mitth. Naturw. Ver. Steirm., xxxvi, p. 189, 1900,
 [(var. of *variegatus*).

Localities: Br. Am., Ariz. (Palaearectic.)

987. *Calocoris uhleri* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 490, 1912 (n.n. for *tinctus* Uhl.).
†tinctus Uhler, Hemip. Colo., p. 34, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
 ?Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
pinicola Kirkaldy, Can. Ent., xl, p. 390, 1909 (n.n. for *pinus* Uhl., a species
 Localities: N.Y.(?), Colo., N. Mex. [never published].

Genus *Poeciloscytus* Fieb.Logotype *unifasciatus* Fabr.

- Fieber, Wien. Ent. Monats., ii, p. 311, 1858.
 Fieber, Europ. Hemip., pp. 68, 276, 1861.
 Douglas and Scott, Brit. Hemip., p. 466, 1865.
 Thomson, Opusc. Ent., iv, p. 428, 1871 (subgen. of *Capsus*).
 Reuter, Rev. Crit. Caps., i, p. 83; ii, p. 64, 1875.

990. *Poeciloscytus uhleri* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914 (n.n. for *inter-*
[*medius* Uhl.).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

[*intermedius* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 261, 1894.

Gillette and Baker, Hemip. Colo., p. 38, 1895.

Localities: Colo., Ariz., Calif.

991. *Poeciloscytus basalis* Reut.

Reuter, Caps. Am. Bor., p. 73, 1876.

Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.

Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887.

Van Duzee, Can. Ent., xix, p. 71, 1887.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 261, 1894.

Gillette and Baker, Hemip. Colo., p. 38, 1895.

Osborn, Ohio Nat., i, p. 12, 1900.

Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Barber, Brookl. Inst., Sci. Bul., i, p. 280, 1906.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Barber, Ann. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Parshley, Psyche, xxi, p. 141, 1914.

sericeus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 422, 1877.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., Ga.,
Fla., Kans.

992. *Poeciloscytus cuneatus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 435, 1893, *Lygus*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 192.

Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 62, 1904.

Osborn, Ohio Nat., v, p. 202, 1904, *Lygus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

obscurus Uhler, Proc. Zool. Soc. Lond. for 1893, p. 715.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Localities: Fla., Texas. (Mexico, West Indies.)

993. *Poeciloscytus elegans* Reut.

Reuter, Neark. Caps., p. 60, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914.

Locality: Calif.

994. *Poeciloscytus basivittis* Reut.

Reuter, Neark. Caps., p. 61, 1909.

Locality: Colo.

995. *Poeciloscytus venaticus* Uhl.

- Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Charagochilus*
 [(name only).
 Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 414, 1872 (description).
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Systratiotus*.
 Uhler, Check List, p. 19, 1886, *Systratiotus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 125, 1887, *Systratiotus*.
 Van Duzee, Can. Ent., xix, p. 71, 1887, *Systratiotus*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Systratiotus*.
 Gillette and Baker, Hemip. Colo., p. 38, 1895, *Systratiotus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Systratiotus*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Systratiotus*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Polymerus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
rubronotatus (Provancher), Nat. Can., iv, p. 105, 1872, *Rhopalotomus*.
americanus (Reuter), Caps. Am. Bor., p. 73, 1876, *Systratiotus*.
 Van Duzee, Can. Ent., xix, p. 71, 1887, *Systratiotus*.
 Harrington, Ottawa Nat., vi, p. 28, 1892, *Systratiotus*. [*Systratiotus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893,
 Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Systratiotus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Systratiotus*.
 Gillette and Baker, Hemip. Colo., p. 38, 1895, *Systratiotus*.
 Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Systratiotus*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904, *Systratiotus*.
 Wirtner, Ann. Carn. Mus., iii, p. 196, 1904, *Systratiotus*.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Systratiotus*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Systratiotus*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Polymerus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909, *Polymerus*.
 Reuter, Neark. Caps., p. 61, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
 Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Fla., Ia.,
 Kans., Colo., Utah, Texas, N. Mex., Calif., Br. Col., Manitoba.

[*Poeciloscytus pusillus* Reut. MS]

- Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.
 Localities: Kans. (Popenoe.)

Genus *Dichrooscytus* Fieb.Logotype *rufipennis* Fall.

- Fieber, Wien. Ent. Monats., ii, p. 309, 1858.
 Fieber, Europ. Hemip., pp. 67, 269, 1861.
 Douglas and Scott, Brit. Hemip., p. 477, 1865.
 Thomson, Opusc. Ent., iv, p. 422, 1871.
 Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 42, 1875.
 Reuter, Hemip. Gymn. Eur., v, pp. 318, 350, 1896.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *rufipennis* type).
 Reuter, Neark. Caps., p. 11, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

995^{1/2}. **Dichrooscytus speciosus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 236, 1916.

Locality: Calif.

996. **Dichrooscytus suspectus** Reut.

Reuter, Neark. Caps., p. 37, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 236, 1916.

†*rufipennis* Uhler, Check List, p. 18, 1886.

Van Duzee, Can. Ent., xix, p. 71, 1887.

Localities: N. Y., N. J., D. C., Colo.

997. **Dichrooscytus elegans** Uhl.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892 (name only).

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Reuter, Neark. Caps., p. 38, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: Ont., N. Y., D. C., N. C., Mich., N. Mex., Calif.

998. **Dichrooscytus irroratus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 482, 1912.

Locality: Colo.

999. **Dichrooscytus maculatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 483, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Localities: Ga., Fla.

Genus **Horcias** Dist.Logotype *variegatus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 277, 1884.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 141, 1906 (names *variegatus* type).

Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 57, 1907 (redescribed).

Reuter, Neark. Caps., pp. 11, 41, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

‖*Metriorrhynchus* Reuter, Caps. Am. Bor., p. 74, 1876 (as subgenus).

Metriorrhynchomiris Kirkaldy, Entomologist xxxvii, p. 280, 1904 (n.n. for

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 140, 1908. [*Metriorrhynchus*.

1000. **Horcias dislocatus** (Say)

Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 784; Compl. Writ., i, p.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Lygus*. [339, *Capsus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 406, 1878, *Lygus*.

Uhler, Check List, p. 19, 1886, *Poecilocapsus*.

Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus*.

Atkinson, Cat. Capsidae, p. 86, 1889, *Lygus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 483, 1912.

melananthus (Herrich-Schaeffer), Wanz. Ins., viii, p. 18, fig. 794, 1848,

Walker, Cat. Heter., vi, p. 91, 1873, *Capsus*.

[*Capsus*.

a. var. *coccineus* (Emmons)

Emmons, Nat. Hist. N. Y., Agric., v, pl. 30, fig. 2, 1854, *Phytocoris*.

||*scutellatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912 (as var.).

b. var. *goniphorus* (Say)

Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 785; Compl. Writ., i, p, Reuter, Caps. Am. Bor., p. 74, 1876, *Poecilocapsus*. [341, *Capsus*.

Uhler, Stand. Nat. Hist., ii, p. 287, 1884, *Poecilocapsus*.

Uhler, Check List, p. 19, 1886, *Poecilocapsus*.

Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus*.

Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus*.

Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 1, 123, 1892, *Poecilocapsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus*.

Gillette and Baker, Hemip. Colo., p. 58, 1895, *Poecilocapsus*.

Slosson, Ent. News, ix, p. 251, 1898, *Poecilocapsus*.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Poecilocapsus*.

Moore, Can. Ent., xxix, p. 163, 1907, *Poecilocapsus*.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

Parshley, Psyche, xxi, p. 142, 1914, *Poecilocapsus*.

limbatellus (Walker), Cat. Heter., vi, p. 93, 1873, *Capsus* (yellow form).

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 33, 1912 (as

Parshley, Psyche, xxi, p. 141, 1914. [var. of *affinis*).

marginatus (Walker), Cat. Heter., vi, p. 96, 1873, *Capsus* (red form).

Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 111, 1904, *Poecilocapsus*.

c. var. *affinis* (Reut.)

Reuter, Caps. Am. Bor., p. 74, 1876, *Poecilocapsus*.

Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus*.

Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus*.

Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 1, p. 123, 1892, *Poecilocapsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus*.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Poecilocapsus*.

Reuter, Neark. Caps., p. 41, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

d. var. *marginalis* (Reut.)

Reuter, Caps. Am. Bor., p. 75, 1876, *Poecilocapsus*.

Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus*.

Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus*.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus*.

Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 1, p. 123, 1892, *Poecilocapsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus*.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Poecilocapsus*.

Moore, Can. Ent., xxxix, p. 163, 1907, *Poecilocapsus* (spelled *marginatus*).

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

e. var. **nigrita** Reut.

Reuter, Neark. Caps., p. 41, 1909.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

f. var. **pallipes** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

g. var. **residuus** Van D.Van Duzee, Check List, p. 39, 1916 (n.n. for *thoracicus* Van D.).||*thoracicus* Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

Localities: Quebec, Ont., Me., Conn., N. Y., N. J., Mich., Ind., Ia., Wis.

1001. **Horcias sexmaculatus** (Barb.)Barber, Brookl. Inst., Sci. Bul., i, p. 280, 1906, *Pocilocapsus*.

Reuter, Neark. Caps., p. 41, 1909.

Locality: Texas.

1002. **Horcias fallax** Reut.

Reuter, Neark. Caps., p. 42, 1909.

Locality: Pa.

1003. **Horcias marmoratus** (Uhl.)Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 263, 1894, *Pocilocapsus*.

Localities: Md., Texas.

Genus **Pocilocapsus** Reut.Logotype *lineatus* Fabr.

Reuter, Caps. Am. Bor., p. 73, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 274, 1884.

Reuter, Neark. Caps., p. 11, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1004. **Pocilocapsus lineatus** (Fabr.)Fabricius, Ent. Syst. Suppl., p. 541, 1798, *Lygacus*.Fabricius, Syst. Rhyn., p. 234, 1803, *Lygacus*.Stål, Hemip. Fabr., i, p. 86, 1868, *Calocoris*.Fitch, 13th Rept. N. Y. St. Ent. for 1869, p. 513, 1870, *Phytocoris*.

Reuter, Caps. Am. Bor., p. 74, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Lygus*.Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Lygus*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 406, 1878, *Lygus*.

Lintner, 1st Rept. N. Y. St. Ent., p. 271, 1882.

Provancher, Pet. Faune Ent. Can., iii, p. 122, 1887.

Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.

Townsend, Trans. Ent. Soc. Wash., ii, p. 54, 1891.

Harrington, Ottawa Nat., vi, p. 28, 1892.

Oshorn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.

Slingerland, Cornell Univ. Agr. Exp. St., Ent. Div. Bul. 58, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.

Slosson, Ent. News, ix, p. 251, 1898.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

- Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
 Barber, Ann. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
 Parshley, Psyche, xxi, p. 142, 1914. [Compl. Writ., i, p. 339, *Capsus*.
quadrivittatus (Say), Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 784;
 Le Baron, 1st Rept. Nox. Ins. Illinois, p. 61, 1871, *Capsus*.
 Lintner, 1st Rept. N. Y. St. Ent., p. 271, fig. 78, 1882.
§vittatus Uhler, Stand. Nat. Hist., ii, p. 286, 1884.
bellus (Emmons), Nat. Hist. N. Y. Agric., v, pl. 30, fig. 1, 1854, *Phytocoris*.
 Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J.,
 Pa., Texas, N. Mex.

1005. *Poecilocapsus nigriger* (Stål)

- Stål, Stet. Ent. Zeit., xxiii, p. 319, 1862, *Brachycoleus*.
 Walker, Cat. Heter., vi, p. 99, 1873, *Capsus*.
 Reuter, Caps. Am. Bor., p. 64, 1875.
 Uhler, Stand. Nat. Hist., ii, p. 287, 1884.
 Distant, Biol. Centr. Am., Heter., i, p. 275, pl. 22, figs. 12, 13, 1884.
 Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 166, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.
 Van Duzee, Trans. San Diego, Soc. Nat. Hist., ii, p. 19, 1914.
 Localities: Fla., Calif. (Mexico.)

Genus *Neocapsus* Dist.

Haplotype *americanus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 277, 1884.

1006. *Neocapsus cuneatus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 438, pl. 38, fig. 6, 1893.
 Banks, Cat. Neare. Hemip., p. 46, 1910.
 Localities: Texas. (Mexico.)

Genus *Pallacocoris* Reut.

Haplotype *suavis* Reut.

- Reuter, Caps. Am. Bor., p. 62, 1876.

1007. *Pallacocoris suavis* Reut.

- Reuter, Caps. Am. Bor., p. 62, 1876.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
 Localities: Texas, Ia.

DIVISION CAPSARIA (D. & S.)

- Douglas and Scott, Brit. Hemip., pp. 32, 423, 1865, Family *Capsidae*.
 Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 44, 1875 (Division).
 Reuter, Genera Cimic. Europ., pp. 6, 15, 1875 (Division).
 Provancher, Pet. Faune Ent. Can., iii, p. 97, 1886, *Capsides* (part).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 208, 1916.
Lygidæ Douglas and Scott, Brit. Hemip., pp. 33, 445, 1865.

Genus *Capsus* Fabr.Orthotype *ater* Fabr.

- Fabricius, Syst. Rhyng., p. 241, 1803.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 299, 1804.
 Latreille, Genera Crust. Ins., iii, p. 123, 1807.
 Fallén, Monog. Cimic. Suec., p. 96, 1807.
 Latreille, Consid. Gén., pp. 225, 433, 1810 (names *spissicornis* pseudotype).
 Fallén, Hemip. Suec., Cimic., p. 114, 1829.
 Hahn, Wanz. Ins., i, p. 125, 1831.
 Laporte, Essai Classif. Syst. Hémip., p. 39, 1832.
 Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
 Blanchard, Hist. des Ins., Hémip., p. 139, 1840 (subgen. of *Phytocoris*).
 Amyot and Serville, Hémip., p. 280, 1843.
 Stål, Hemip. Fabr., i, p. 87, 1868.
 Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 77, 1875.
 Reuter, Genera Cimic. Eur., p. 21, 1875.
 Uhler, Check List, p. 19, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 128, 1887.
 Atkinson, Cat. Capsidae, p. 105, 1889.
 Reuter, Hemip. Gymn. Eur., v, pp. 13, 348, 1896.
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 468, 1904.
 Reuter, Neark. Caps., p. 12, 1909.
 Oshanin, Verz. Palae. Hemip., i, p. 758, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 157, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.
Rhopalotomus Fieber, Wien. Ent. Monat., ii, p. 307, 1858 (Haplotype *ater*
 Fieber, Europ. Hemip., pp. 66, 263, 1861. [Linn.).
 Douglas and Scott, Brit. Hemip., p. 439, 1865.
 Thomson, Opusc. Ent., iv, p. 430, 1871.
 Puton, Cat. Hemip. Palae., p. 52, 1886.

1008. *Capsus ater* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, p. 447, 1758; edn. 12, i, p. 725, 1767, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 241, 1803, *Capsus*.
 Fallén, Hemip. Suec., Cimic., p. 116, 1829.
 Hahn, Wanz. Ins., i, p. 126, 1831.
 Flor, Rhyng. Livl., i, p. 486, 1860.
 Fieber, Europ. Hemip., p. 264, 1861, *Rhopalotomus*.
 Douglas and Scott, Brit. Hemip., p. 440, 1865, *Rhopalotomus*.
 Stål, Hemip. Fabr., i, p. 87, 1868.
 Walker, Cat. Heter., vi, p. 77, 1873.
 Reuter, Rev. Crit. Caps., ii, p. 78, 1875.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 411, 1878, *Rhopalotomus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 129, 1887.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Saunders, Heter. Brit. Isds., p. 262, pl. 24, fig. 5, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.

- Slosson, Ent. News, v, p. 5, 1895.
 Reuter, Hemip. Gymn. Eur., v, pp. 14, 357, 1896.
 Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
 Bueno, Can. Ent., xlii, p. 29, 1910.
 Parshley, Psyche, xxi, p. 142, 1914.
?sordens (Gmelin) in Linnaeus, Syst. Nat., edn. 13, p. 2166, 1788, *Cimex*.
nigricornis Hahn, Icon. Monog. Cimic., fig. 20, 1826.

a. var. **tyrannus** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 242, 1803.
 Wolff, Icon. Cimic., iii, p. 152, fig. 146, 1804, *Lygaeus*.
 Reuter, Hemip. Gymn. Eur., v, p. 15, 1896.
flavipes Provancher, Nat. Can., iv, p. 104, 1872.

b. var. **semiflavus** (Linn.)

- Linnaeus, Syst. Nat., edn. 12, i, p. 725, 1867, *Cimex*.
 Reuter, Hemip. Gymn. Eur., v, p. 15, 1896.
flavicollis (Fabricius), Syst. Ent., p. 725, 1775, *Cimex*.
 Fabricius, Syst. Rhyng., p. 243, 1803.
 Wolff, Icon. Cimic., i, p. 32, fig. 32, 1800, *Lygaeus*.
 Localities: Ont., Me., N. H., N. Y., N. J., Pa., D. C. (Europe.)

Genus **Coccobaphes** Uhl.

Haplotype *sanguinarius* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878.
 Provancher, Pet. Faune Ent. Can., ii, p. 117, 1887.
 Reuter, Neark. Caps., p. 11, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1009. **Coccobaphes sanguinarius** Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 117, 1887.
 Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
 Reuter, Neark. Caps., p. 37, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
 Parshley, Psyche, xxi, p. 141, 1914.

Localities: Ont., Me., N. Y., N. J., Pa., Ia.

Genus **Lygidea** Rent.

Haplotype *illota* (Stål)

- Reuter, Pet. Nouv. Ent., i, p. 547, 1875.
 Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 54, 1879.
 Reuter, Hemip. Gymn. Europ., v, pp. 68, 349, 1896.
 Reuter, Neark. Caps., p. 12, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1010. *Lygidea rubecula* (Uhl.)

Uhler, Hemip. Colo., p. 37, 1895, *Neoborus*.

Reuter, Neark. Caps., pp. 45, 46, 1909.

Parshley, Psyche, xxi, p. 141, 1914.

a. var. *infusca* Reut.

Reuter, Neark. Caps., p. 46, 1909.

b. var. *rosacea* Reut.

Reuter, Neark. Caps., p. 46, 1909.

c. var. *obscura* Reut.

Reuter, Neark. Caps., p. 46, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: Ont., Me., N. H., N. Y., Colo., Calif., Manitoba.

1011. *Lygidea mendax* Reut.

Reuter, Neark. Caps., p. 47, 1909.

Crosby, Can. Ent., xliii, p. 17, 1911.

Crosby, 26th Rept. N. Y. St. Ent., p. 44, 1911.

Parshley, Psyche, xxi, p. 141, 1914.

Knight, Jl. Econ. Ent., viii, p. 295, 1915. (Oviposition.)

Localities: Me., N. Y.

1012. *Lygidea morio* Reut.

Reuter, Neark. Caps., p. 47, 1909.

Locality: Calif.

Genus *Platylygus* Van D.

Orthotype *luridus* (Reut.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 111, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1013. *Platylygus luridus* (Reut.)

Reuter, Neark. Caps., p. 46, 1909, *Lygidea* (as var. of *rubecula* Uhl.)

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: N. Y., Calif.

Genus *Lygus* Hahn

Logotype *limbatus* (Fall.)

Hahn, Wanz. Ins., i, p. 147, 1831.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *coryli*

Fieber, Wien. Ent. Monats., ii, p. 311, 1858. [Linn. pseudotype).]

Fieber, Europ. Hemip., pp. 68, 272, 1861.

Douglas and Scott, Brit. Hemip., p. 456, 1865.

Thomson, Opusc. Ent., iv, p. 423, 1871.

Reuter, Crit. Rev. Caps., i, p. 81; ii, p. 45, 1875.

Reuter, Genera Cimic. Europ., p. 15, 1875.

Distant, Biol. Centr. Am., Heter., i, p. 272, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 118, 1887.

Reuter, Hemip. Gymn. Eur., v, pp. 71, 350, 1896. [pseudotype).]

Distant, Fauna Brit. Ind., Rhyn., ii, p. 454, 1904 (names *pabulinus* Linn.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *limbatus* Fall.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916. [type).]

Pocillosoma Stephens (MS), Syst. Cat. Brit. Ins., p. 346, 1829.

(A revision of genus *Lygus* by Mr. H. H. Knight, including a number of new species, will soon be published by Cornell University; if out in time the new species will be listed at end of this volume.)

Subgenus **Lygocoris** Reut.Logotype *pabulinus* (Linn.)

Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 45, 1875.

Reuter, Genera Cimic. Europ., p. 16, 1875.

Reuter, Hemip. Gymn. Eur., v, p. 367, 1896.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *pabulinus* type).1014. **Lygus pabulinus** (Linn.)Linnaeus, Fauna Suec., p. 253, No. 947, 1761, *Cimex*.Linnaeus, Syst. Nat., edn. 12, i, p. 727, 1767, *Cimex*.Fabricius, Genera Ins., p. 301, 1776, *Cimex*.Fabricius, Ent. Syst., iv, p. 184, 1794, *Miris*.Walckenaer, Fauna Paris., ii, p. 349, 1802, *Miris*.Fabricius, Syst. Rhyng., p. 254, 1803, *Miris*.Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804, *Miris*.Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygacus*.Zetterstedt, Fauna Lapp., p. 468, 1828, *Phytocoris*.Fallén, Hemip. Suec., Cimic., p. 79, 1829, *Phytocoris*.

Hahn, Wanz. Ins., i, p. 143, fig. 74, 1831.

Burmeister, Handb. d. Ent., ii, p. 270, 1835, *Phytocoris*.Zetterstedt, Ins. Lapp., column 272, 1840, *Phytocoris*.Blanchard, Hist. des Ins., Hemip., p. 137, 1840, *Phytocoris*.Kirschbaum, Rhyng. v. Wieshd., Caps., p. 57, 1855, *Capsus* (*Deraeocoris*).

Baerensprung, Cat. Hemip. Eur., p. 15, 1860.

Flor, Rhyng. Livl., i, p. 507, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 276, 1861.

Douglas and Scott, Brit. Hemip., p. 457, 1865.

Thomson, Opusc. Ent., iv, p. 424, 1871, *Capsus*.

Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 45, 1875.

Uhler, Check List, p. 18, 1886.

Van Duzee, Can. Ent., xix, p. 71, 1887.

Reuter, Rev. Synon., p. 267, No. 242, 1888.

Van Duzee, Can. Ent., xxi, p. 3, 1889.

Saunders, Hemip. Brit. Isds., p. 249, pl. 23, fig. 5, 1892.

Reuter, Hemip. Gymn. Europ., v, pp. 114, 367, 1896.

Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.

Slosson, Ent. News, xiii, p. 8, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.

Van Duzee, Can. Ent., xxxviii, p. 407, 1906.

Moore, Can. Ent., xxxix, p. 163, 1907.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Van Duzee, Can. Ent., xl, p. 113, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Horvath, Ann. Mus. Natl. Hung., xi, p. 337, 1911.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912.

Parshley, Psyche, xxi, p. 141, 1914.

nigrophthalmus (Retzius), Genera et Spec. Ins., p. 88, 1783, *Cimex*.*zaccugineus* (Fourcroy), Ent. Paris., p. 208, 1785, *Cimex*.*hortuorum* (Tigny), Hist. Nat. des Ins., iv, p. 287, 1813, *Cimex*.

- †*affinis* (Meyer), Verz. Rhyn. Schw. Caps., p. 48, pl. 1, fig. 5, 1843, *Capsus*.
solani Curtis, Farm Ins., p. 434, fig. 59, No. 20, and pl. 0, figs. 20, 21, 1860.
 †*contaminatus* Provancher, Pet. Faune Ent. Can., iii, p. 121, 1887.
chagnoni Stevenson, Can. Ent., xxxv, p. 214, 1903.

a. var. **signifer** Reut.

Reuter, Neark. Caps., p. 42, 1909.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Brit. Col.,
 Alaska.

Subgenus **Lygus** Hahn

Logotype *limbatus* (Fall.)

Reuter, Rev. Crit. Caps., i, p. 82; ii, p. 47, 1875.

Reuter, Hemip. Gymn. Eur., v, p. 364, 1896.

1015. **Lygus contaminatus** (Fall.)

Fallén, Hemip. Suec., Cimie., p. 79, 1829, *Phytocoris*.

Hahn, Wanz. Ins., i, p. 151, fig. 76, 1831.

Zetterstedt, Ins. Lapp., column 272, 1840, *Phytocoris*.

Fieber, Europ. Hemip., p. 274, 1861.

Reuter, Rev. Crit. Caps., ii, p. 49, 1875.

Reuter, Genera Cimie. Eur., p. 17, 1875.

Uhler, Check List, p. 18, 1886.

Saunders, Heter. Brit. Isds., pp. 249, 250, 1892.

Reuter, Hemip. Gymn. Eur., v, pp. 112, 367, 1896.

Oshanin, Verz. Palae. Hemip., i, p. 716, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.

†*viridis* (Flor), Rhyn. Livl., i, p. 531, 1860, *Capsus* (part).

†*sulcifrons* Douglas and Scott, Brit. Hemip., p. 459, 1865.

Localities: Calif., Br. Am. (Palaearectic.)

1016. **Lygus lucorum** (Meyer)

Meyer, Verz. Schw. Rhyn., Caps., p. 46, pl. 6, fig. 2, 1843, *Capsus*.

Fieber, Europ. Hemip., p. 275, 1861.

Douglas and Scott, Brit. Hemip., p. 458, 1865.

Reuter, Rev. Crit. Caps., ii, p. 52, 1875.

Uhler, Check List, p. 18, 1886.

Saunders, Heter. Brit. Isds., pp. 249, 251, 1892.

Reuter, Hemip. Gymn. Eur., v, pp. 107, 366, pl. 5, fig. 3, 1896.

Oshanin, Verz. Palae. Hemip., i, p. 717, 1909.

†*contaminatus* (Kirschbaum), Rhyn. v. Wieshd., Caps., p. 65, 1855, *Capsus*.

Flor, Rhyn. Livl., ii, p. 612, 1861, *Capsus*.

Thomson, Opusc. Ent., iv, p. 425, 1871, *Capsus*.

hipunctatus (Sahlberg), Monog. Geoc. Fenn., p. 101, 1848, *Capsus*.

Locality: "U. S." (Uhler).

1017. **Lygus viridis** (Fall.)

Fallén, Monog. Cimie. Suec., p. 85, 1807, *Lygacus*.

Fallén, Hemip. Suec., Cimie., p. 93, 1829, *Phytocoris*.

Sahlberg, Monog. Cimie. Fenn., p. 106, 1848, *Capsus*.

Baerensprung, Cat. Hemip. Europ., p. 15, 1860.

Flor, Rhyn. Livl., i, p. 531, 1861, *Capsus*.

Reuter, Rev. Crit. Caps., ii, p. 50, 1875.

- Reuter, Genera Cimic. Eur., p. 17, 1875.
 Reuter, Rev. Synon., p. 268, No. 243, 1888.
 Saunders, Heter. Brit. Isds., pp. 249, 250, pl. 23, fig. 2, 1892.
 Reuter, Hemip. Gymn. Eur., v, pp. 113, 367, 1896.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 42, 1909.
?fusco-maculatus (Goeze), Ent. Beytr., ii, p. 267, 1778, *Cimer*.
?viridescens Geoffroy in Foureroy, Ent. Paris., p. 207, 1785, *Cimer*.
?obfuscatus (Gmelin), in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2185,
commutatus Fieber, Wien. Ent. Monats., ii, p. 231, 1858. [1788, *Cimer*.
 Fieber, Europ. Hemip., p. 274, 1861.
[†]*contaminatus* Douglas and Scott, Brit. Hemip., p. 461, 1865.
[†]*sulcifrons* (Thomson), Opusc. Ent., iv, p. 425, 1871, *Capsus*.
 Localities: N. H., Mass. (Palaearectic.)

1018. *Lygus belfragii* Reut.

- Reuter, Caps. Am. Bor., p. 71, 1876.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.
 Localities: Quebec, Ont., N. H., Mass., N. Y.

1019. *Lygus hirticulus* Van D.

- Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892 (MS name).
 Slosson, Ent. News, xi, p. 323, 1900 (MS name, spelled *hirticoelus*).
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905 (MS name).
 Van Duzee, Check List, p. 41, 1916 (n.n. for *tencellus* Van D.).
^{||}*tencellus* Uhler, Check List, p. 18, 1886 (MS name).
 Atkinson, Cat. Caps., p. 91, 1888 (MS name).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909 (MS name).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912 (description).
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
 Localities: Me., Mass., N. Y.

1020. *Lygus invitus* (Say)

- Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 790; Comp. Writ., i, p. [345, *Capsus*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 407, 1878.
 Provaneher, Pet. Faune Ent. Can., iii, p. 121, 1887.
 Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Riley, N. Am. Fauna, vii, p. 250, 1893.
 Gillette and Baker, Hemip. Colo., p. 35, 1895.
 Slosson, Ent. News, xiii, p. 8, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Van Duzee, 20th Rept. N. Y. Ent., p. 551, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Van Duzee, Can. Ent., xl, p. 113, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.

Parshley, Psyche, xxi, p. 141, 1914.

Knight, Jl. Econ. Ent., viii, p. 296, 1915.

Knight, Can. Ent., xlviii, p. 345, 1916.

†*lincolatus* (Emmons), Nat. Hist. N. Y. Ins., pl. 30, fig. 7, 1854, *Phytocoris*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ia.,
Kans., Ariz.

1020¹/₂. **Lygus communis** Kngt.

Knight, Can. Ent., xlviii, p. 346, 1916.

Localities: Me., N. H., Vt., N. Y., Colo.

1021. **Lygus vitticollis** Reut.

Reuter, Caps. Am. Bor., p. 71, 1876.

Reuter, Neark. Caps., p. 43, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

monachus Uhler, Can. Ent., xviii, p. 208, 1886.

Van Duzee, Can. Ent., xix, p. 71, 1887.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.

Slosson, Ent. News, xi, p. 323, 1900.

Wirtner, Am. Carn. Mus., iii, p. 196, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Van Duzee, Can. Ent., xl, p. 113, 1908.

Localities: Ont., Mass., N. H., N. Y., N. J., Pa., Ia., Texas.

1022. **Lygus carolinae** Reut.

Reuter, Caps. Am. Bor., p. 71, 1876.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.

Localities: Carolina, Texas.

1023. **Lygus fasciatus** Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.

Localities: Me., N. Y., S. C.

1024. **Lygus apicalis** Fieb.

Fieber, Eur. Hemip., p. 275, 1861.

Reuter, Hemip. Gymn. Eur., v, p. 110, pl. 5, fig. 1, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Reuter, Neark. Caps., p. 43, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

a. var. prasinus Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909.

Van Duzee, Can. Ent., xli, p. 127, 1909.

Reuter, Neark. Caps., p. 43, 1909.

inops Horvath, Rev. d'Ent., xiii, p. 190, 1894 (as var. of *apicalis*).

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.

Localities: Ga., Fla., Texas. (West Indies, Europe.)

1025. *Lygus guttatipes* Uhl.

Uhler, Hemip. Colo., p. 35, 1895.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Locality: Colo.

1026. *Lygus olivaceus* Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 6, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907; ix, p. 179, 1909.

Van Duzee, Can. Ent., xli, p. 127, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Localities: Fla. (West Indies.)

1027. *Lygus salléi* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862.

Uhler, Check List, p. 18, 1886.

Distant, Biol. Centr. Am., Heter., i, p. 273, pl. 23, figs. 2, 3, 1884; p. 433, 1893.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 259, 1894.

Gillette and Baker, Hemip. Colo., p. 36, 1895.

Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 170, 1909 (redescription).

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.

Localities: Colo., Texas, N. Mex., Ariz., Calif. (Mexico.)

1028. *Lygus vividus* Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 260, 1894.

Localities: Calif. (Mexico.)

1029. *Lygus approximatus* (Stål)

Stål, Stet. Ent. Zeit., xix, p. 185, 1858, *Deracocoris*.

Reuter, Hemip. Gymn. Eur., v, p. 91, 1896.

Reuter, Neark. Caps., p. 43, 1909.

Localities: Ont., W. Va., Wyo., Alaska.

1030. *Lygus convexicollis* Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.

Reuter, Neark. Caps., p. 43, 1909.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 37, 1912.

Locality: Calif.

1031. *Lygus pratensis* (Linn.)

Linnaeus, Syst. Nat., edn. 10, p. 448, 1758, *Cimex*.

Linnaeus, Fauna Suec., n. edn., p. 253, No. 949, 1761, *Cimex*.

Linnaeus, Syst. Nat., edn. 12, p. 728, 1767, *Cimex*.

Fabricius, Syst. Ent., p. 724, 1775, *Cimex*.

Foureroy, Ent. Paris., p. 205, 1785, *Cimex*.

Fabricius, Ent. Syst., iv, p. 171, 1794, *Lygacus*.

Walekenae, Fauna Paris., ii, p. 347, 1802, *Lygacus*.

Fabricius, Syst. Rhyng., p. 234, 1803, *Lygacus*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 222, 1804, *Miris*.

- Fallén, Monog. Cimic. Suec., p. 83, 1807, *Lygacus*.
 Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris*.
 Fallén, Hemip. Suec., Cimic., p. 90, 1829, *Phytocoris*.
 Hahn, Wanz. Ins., i, p. 217, fig. 112, 1831, *Phytocoris*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus*.
 Burmeister, Handb. d. Ent., ii, p. 272, 1835, *Phytocoris*.
 Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 138, 1840, *Phytocoris*.
 Meyer, Verz. Schw. Rhyn., p. 99, 1843, *Capsus*.
 Kolenati, Melet. Ent., ii, p. 119, 1845, *Phytocoris*.
 Sahlberg, Geoc. Fenn., p. 111, 1848, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 64, 1855, *Capsus*.
 Baerensprung, Cat. Hemip. Eur., p. 15, 1860.
 Flor, Rhyng. Livl., i, p. 517, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 273, 1861.
 Douglas and Scott, Brit. Hemip., p. 464, pl. 15, fig. 2, 1865.
 Thomson, Opusc. Ent., iv, p. 424, 1871, *Capsus*.
 Reuter, Rev. Crit. Caps., ii, p. 54, 1875.
 Reuter, Genera Cimic. Eur., p. 18, 1875.
 Reuter, Caps. Am. Bor., p. 72, 1876.
 Saunders, Ins. Inj. to Fruits, p. 147, fig. 153, 1883.
 Distant, Biol. Centr. Am., Heter., i, p. 272, pl. 23, figs. 4, 6, 7, 16, 1884.
 Uhler, Check List, p. 18, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 119, 1887.
 Van Duzee, Can. Ent., xix, p. 71, 1887.
 Reuter, Rev. Synon., p. 269, No. 244, 1888.
 Van Duzee, Can. Ent., xxi, p. 3, 1889.
 Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
 Townsend, Can. Ent., xxiv, p. 193, 1892.
 Harrington, Ottawa Nat., vi, p. 27, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893.
 Riley, N. Am. Fauna, vii, p. 250, 1893.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 259, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
 Gillette and Baker, Hemip. Colo., p. 36, 1895.
 Blatchley, Psyche, vii, p. 279, 1895.
 Heidemann, Proc. Wash. Acad. Sci., ii, p. 505, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1908.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Van Duzee, Can. Ent., xl, p. 113, 1908; xli, p. 127, 1909.
 Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 169, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
 Crosby and Leonard, Can. Ent., xlvi, p. 181, 1914 (egg parasite).
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.

- Essig, Inj. Ben. Ins. Calif., edn. 2, p. 211, 1915.
- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
- umbellatarum* Scopoli, Ent. Carn., p. 133, 1763, *Cimex*.
- Panzer, Fauna Germ., xciii, fig. 19, 1805, *Lygaeus*.
- ?*rubecula* Goeze, Ent. Beytr., ii, p. 279, 1778, *Cimex*.
- ?*viridulus* Panzer, Schaeef. Icon., p. 120, 1804, *Lygaeus*.
- lincolaris* Palisot-Beauvois, Ins. Rec. Af. Am., p. 187, 1805, *Capsus*.
- Harris, Rept. Inj. Ins. Mass., p. 161, 1841, *Phytocoris*.
- Harris, Treat. Ins. Inj. Veget., new edn., p. 200, 1862, *Phytocoris*.
- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.
- Walker, Cat. Heter., vi, p. 91, 1873, *Capsus*.
- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877.
- Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
- Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.
- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 407, 1878.
- Popenoe, Trans. Kan. Acad. Sci., ix, p. 63, 1885. [1805, *Capsus*.
- lincolaris* (Palisot-Beauvois), Ins. Rec. Af. Am., pl. Hemip., No. 11, fig. 7,
- Uhler, in Harris Rept. Inj. Ins. Mass., p. 161, note, 1841, *Phytocoris*.
- Uhler in Harris, Treat. Ins. Inj. Veget., new edn., p. 200, note, 1862, [1805, *Capsus*.
- Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 313, 1864, *Phytocoris*.
- oblineatus* (Say), Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 784; [Compl. Writ., i, p. 340, *Capsus*.
- Smith, Cat. Ins. N. J., edn. 2, p. 124, 1900.
- [*diffusus* Uhler, MS], Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
- Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
- [*redimitus* Uhler, MS], Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
- flavonotatus* (Provancher), Nat. Can., iv, p. 103, 1872, *Capsus*.
- Uhler, Check List, p. 19, 1886, *Deracocoris*?
- Provancher, Pet. Faune Ent. Can., iii, p. 120, 1887.
- Van Duzee, Can. Ent., xxi, p. 3, 1889.
- Harrington, Ottawa Nat., vi, p. 28, 1892.
- Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
- Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
- Parshley, Psyche, xxi, p. 141, 1914.
- ?*malinus* (Provancher), Pet. Faune Ent. Can., iii, p. 134, 1887, *Sthenarops*.
- ?*belfragei* Provancher, Pet. Faune Ent. Can., iii, p. 120, 1887.
- ?*flavomaculatus* Van Duzee, Can. Ent., xix, p. 71, 1887 (error for *flavo-*
- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894. [*notatus*).
- var. **pubescens** Reut.
- Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 37, 1912 (n.n. for [*campestris* Fall.)
- [*campestris* Fallén, Monog. Cimic. Suec., p. 83, 1807, *Lygaeus*.
- Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris*.
- Fallén, Hemip. Suec., Cimic., p. 91, 1829, *Phytocoris*.
- Pahn, Wanz. Ins., i, p. 218, fig. 113, 1831, *Phytocoris*.
- Herrieh-Schaeffer, Nom. Ent., i, p. 51, 1835, *Capsus*.
- Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris*.
- Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Phytocoris*.
- Kolenati, Melet. Ent., ii, p. 118, 1845, *Phytocoris*.
- Sahlberg (F.), Geoc. Fenn., p. 111, 1848, *Capsus*.
- Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 65, 1855, *Capsus* (*Deracocoris*).

Baerensprung, Cat. Hemip. Eur., p. 15, 1860.

Fieber, Eur. Hemip., p. 273, 1861.

Douglas and Scott, Brit. Hemip., p. 463, 1865.

Thomson, Opuse. Ent., iv, p. 424, 1871, *Capsus*.

var. **gemellatus** (H. S.)

Herrich-Schaeffer, Nom. Ent., i, p. 51, 1835, *Capsus*.

Herrich-Schaeffer, Wanz. Ins., iii, p. 84, 1835, *Capsus*.

Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 64, 1855, *Capsus* (*Deraccoris*).

Baerensprung, Cat. Hemip. Eur., p. 15, 1860.

Reuter, Rev. Crit. Caps., ii, p. 55, 1875.

Reuter, Hemip. Gymn. Eur., v, p. 99, 1896.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 35, 1912.

artemisiae (Schilling), Ber. Vat. Ges. Schles., p. 83, 1836, *Capsus*.

adpersus (Schilling), Ber. Vat. Ges. Schles., p. 83, 1836, *Capsus*.

var. **punctatus** Zett.

Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris*.

Kolenati, Melet. Ent., ii, p. 118, 1845, *Phytocoris*.

Sahlberg (F.), Geoc. Fenn., p. 110, 1848, *Capsus*.

Thomson, Opuse. Ent., iv, p. 423, 1871, *Capsus*.

Reuter, Hemip. Gymn. Eur., v, p. 98, 1896.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 35, 1912.

alpina (Kolenati), Melet. Ent., ii, p. 120, 1845, *Phytocoris*.

var. **rutilans** Horv.

Horvath, Rev. d'Ent., vii, p. 181, 1888.

Reuter, Hemip. Gymn. Eur., v, p. 99, 1906.

fuscombra Strobl, Mitth. Naturw. Ver. Steierm. xxvi, p. 193, 1900.

Localities: All the United States, Canada. (Palaearectic, Mex.)

1032. **Lygus elisus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914 (as var. of
[*pratensis*].

Locality: Calif.

1033. **Lygus annexus** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.

Uhler, Wheeler's Surv. 100th Mer., v, p. 839, pl. 42, fig. 10, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Gillette and Baker, Hemip. Colo., p. 35, 1895.

Locality: Colo.

1034. **Lygus(?) distanti** Atk.

Atkinson, Cat. Capsidae, p. 91, 1889 (n.n. for *scutellatus* Dist.).

Distant, Biol. Centr. Am., Heter., i, p. 434, 1893.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

♂ *scutellatus* Distant, Biol. Centr. Am., Heter., i, p. 274, pl. 23, figs. 9, 18,

Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906. [1884.

Snow, Trans. Kans. Acad. Sci., xx, pt. 2, p. 159, 1907.

Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 169, 1907.

Localities: Kans., Ariz., Texas. (Mexico.)

[**Lygus repletus** Uhler MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

[**Lygus intersectus** Uhler MS]

Van Duzee, Can. Ent., xxi, p. 3, 1889.

1035. **Lygus plagiatus** Uhl.

Uhler, Hemip. Colo., p. 35, 1895.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Osborn, Ohio Nat., i, p. 12, 1900.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: Mass., N. Y., D. C., Ohio, Kans., Colo., Calif.

[**Lygus ustulatus** Uhler MS]

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Subgenus **Orthops** Fieb.Logotype *kalmi* (Linn.)

Fieber, Wien. Ent. Monat., ii, p. 311, 1858.

Fieber, Europ. Hemip., pp. 68, 278, 1861.

Douglas and Scott, Brit. Hemip., p. 451, 1865.

Thomson, Opusc. Ent., i, p. 426, 1871.

Reuter, Genera Cimic. Eur., p. 18, 1875.

Reuter, Rev. Crit. Caps., i, p. 82; ii, p. 57, 1875.

Reuter, Hemip. Gymn. Eur., v, p. 362, 1896.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *kalmi* type).

1036. **Lygus campestris** (Linn.)

Linnaeus, Syst. Nat., edn. 10, p. 1758, *Cimex*.

Linnaeus, Fauna Suec., edn. 2, p. 254, 1761, *Cimex*.

Linnaeus, Syst. Nat., edn. 12, i, p. 728, 1767, *Cimex*.

Fabricius, Ent. Syst., iv, p. 171, 1794, *Lygaeus*.

Reuter, Rev. Synon., p. 271, No. 245, 1888.

Reuter, Hemip. Gymn. Eur., v, p. 79, 1896.

Reuter, Neark. Caps., p. 44, 1909.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afä. A, No. 7, p. 37, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

transversalis (Fabricius), Mantissa Ins., p. 304, 1787, *Cimex*.

Fabricius, Ent. Syst., iv, p. 175, 1794, *Lygaeus*.

Fabricius, Syst. Rhyng., p. 238, 1803, *Lygaeus*.

Reuter, Rev. Crit. Caps., ii, p. 59, 1875, *Orthops*.

Reuter, Genera Cimic. Eur., p. 18, 1875.

pastinacae (Fallén), Monog. Cimic. Suec., p. 86, 1807, *Lygaeus*.

Fallén, Hemip. Suec., Cimic., p. 94, 1829, *Phytocoris*.

Stål, Stet. Ent. Zeit., xix, p. 186, 1858, *Deracocoris*.

Flor, Rhyng. Livl., i, p. 523, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 279, 1861, *Orthops*.

Douglas and Scott, Brit. Hemip., p. 455, pl. 15, fig. 8, 1865, *Orthops*.

Van Duzee, Can. Ent., xix, p. 71, 1887, *Orthops*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Orthops*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Oshanin, Verz. Palae. Hemip., i, p. 727, 1909.

- lucidus* (Kirschbaum), Rhyng. v. Wiesbd., Caps., p. 131, 1855, *Capsus*.
§transversus (Thomson), Opusc. Ent., iv, p. 427, 1871, *Capsus*.
scutellatus (Uhler), Bul. U. S. Geol. Geog. Surv., iii, p. 420, 1877, *Orthops*.
 Van Duzee, Can. Ent., xix, p. 71, 1887, *Orthops*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Orthops*.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 261, 1894, *Orthops*.
 Gillette and Baker, Hemip. Colo., p. 39, 1895, *Orthops*.
 Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Orthops*.
 Heidemann, Proc. Wash. Acad. Sci., ii, p. 505, 1900.
 Slosson, Ent. News, xiii, p. 8, 1902, *Orthops*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Orthops*.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Orthops*.
 Moore, Can. Ent., xxxix, p. 163, 1907, *Orthops*.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Colo., Wyo., Texas,
 Ariz., Calif., Alaska. (Europe.)

Subgenus **Agnocoris** Reut.

Haplotype *rubicundus* (Fall.)

- Reuter, Genera Cimic. Eur., p. 19, 1875.
 Reuter, Rev. Crit. Caps., i, p. 82, 1875 (as subgen. of *Cyphodema*).
 Reuter, Rev. Crit. Caps., ii, p. 63, 1875 (as subgen. of *Cyphodema*).
 Reuter, Hemip. Gymn. Eur., v, p. 362, 1896.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906.

1037. **Lygus rubicundus** (Fall.)

- Fallén, Hemip. Suec. Cimic., p. 92, 1829, *Phytocoris*.
 Flor, Rhyng. Livl., i, p. 534, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 278, 1861, *Hadrodema*.
 Reuter, Rev. Crit. Caps., ii, p. 63, 1875, *Cyphodema* (*Agnocoris*).
 Reuter, Hemip. Gymn. Eur., v, pp. 72, 362, pl. 4, fig. 8, 1896.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 45, 1909.
 Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 20, 1916.
†rubricatus Hahn, Wanz. Ins., i, p. 156, 1831.
pulverulenta (Uhler), Trans. Md. Acad. Sci., i, p. 183, 1892, *Hadrodema*.
 Van Duzee, Can. Ent., xxi, p. 3, 1889, *Hadrodema* (a MS name).
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Hadrodema*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Hadrodema*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Hadrodema*.
 Gillette and Baker, Hemip. Colo., p. 32, 1895, *Hadrodema*.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Hadrodema*.
 Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Hadrodema*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904, *Hadrodema*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Hadrodema*.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
 Localities: Ont., Mass., Conn., N. Y., N. J., Pa., Md., D. C., Va.,
 Ga., N. C., Wis., Ind., Ill., Ia., Kans., Colo., Utah, N. Mex.,
 Texas, Manitoba, Calif. (Europe.)

1038. **Lygus distinguendus** Reut.

- Reuter, Pet. Nouv. Ent., i, p. 541, 1875.
 Reuter, Hemip. Gymn. Eur., v, p. 74, 1896.

- Reuter, Ann. Mus. Zool. Acad. Sci. St. Pet., x, p. 47, 1906.
 Reuter, Neark. Caps., p. 45, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.
guttulosus Uhler MS, Reuter, Neark. Caps., p. 45, 1909.
 Localities: Brit. Col., N. Mex., Calif. (Siberia.)

1038¼. **Lygus nubilus** Van D.

- Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914 (as var. of
 [distinguendus].
 Locality: Calif.

Genus **Tropidosteptes** Uhl.
 Haplotype *cardinalis* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 404, 1878.
 Reuter, Neark. Caps., pp. 12, 48, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1039. **Tropidosteptes cardinalis** Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 404, 1878.
 Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
 Reuter, Neark. Caps., p. 50, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
 Leonard, Psyche, xxiii, p. 1, 1916 (life history).
 Localities: Mass., Conn., N. Y., N. J., Pa., Ill., Fla.

1040. **Tropidosteptes imperialis** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912.
 Locality: Texas.

Genus **Neoborus** Dist.
 Logotype *sarcus* Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 276, 1884.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1041. **Neoborus amoenus** (Reut.)

- Reuter, Neark. Caps., p. 48, 1909, *Tropidosteptes*.
 Dickerson and Weiss, Jl. N. Y. Ent. Soc., xxiv, p. 302, 1916.
 †*sarcus* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 264, 1894.
 Slosson, Ent. News, xi, p. 323, 1900.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910, *Tropidosteptes*.

var. **amoenus** (Reut.)

- Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.

a. var. **palmeri** Reut.

- Reuter, Can. Ent., xl, p. 112, 1908.
 Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.
 Van Duzee, Ottawa Nat., xxvi, p. 70, 1912, *Tropidosteptes*.
 †*scutellatus* Provancher, Pet. Faune Ent. Can., iii, p. 124, 1887, *Orthops*.

b. var. plagiata (Reut.)

Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.

c. var. signata (Reut.)

Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.

d. var. scutellaris (Reut.)

Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.

Localities: Quebec, Ont., N. Y., N. J., Pa., Md., D. C., Kans., Ohio.

1042. *Neoborus geminus* (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 788; Compl. Writ., i, p.

[1344, *Capsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912, *Tropidosteptes*.

Localities: N. Y., Ind.

1043. *Neoborus tricolor* (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912, *Tropidosteptes*.

Locality: N. J.

1044. *Neoborus pettiti* (Reut.)

Reuter, Neark. Caps., p. 50, 1909, *Tropidosteptes*.

Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910, *Tropidosteptes*.

Parshley, Psyche, xxi, p. 141, 1914.

†*punctulata* (Provancher), Pet. Faune Ent. Can., iii, p. 133, 1887, *Trichia*.

[*pettiti* Uhl. MS], Van Duzee, Can. Ent., xxi, p. 4, 1889.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Ia., Kans.

1045. *Neoborus canadensis* (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, 486, 1912, *Tropidosteptes*

Van Duzee, Ottawa Nat., xxvi, p. 68, 1912, *Tropidosteptes*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: Quebec, Ont., Calif.

Genus *Xenoborus* Reut.Haplotype *commissuralis* Reut.

Reuter, Can. Ent., xl, p. 112, 1908 (as subgenus of *Neoborus*).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1046. *Xenoborus commissuralis* Reut.

Reuter, Can. Ent., xl, p. 112, 1908.

Reuter, Neark. Caps., p. 51, 1909, *Tropidosteptes*.

†*chiloris* Provancher, Pet. Faune Ent. Can., iii, p. 134, 1887, *Sthenarops*.

[*lactus* Uhl. MS], Osborn, Ohio Nat., i, p. 12, 1900, *Neoborus*.

Localities: Quebec, Ont., N. Y.

1047. *Xenoborus plagifer* (Reut.)

Reuter, Neark. Caps., p. 51, 1909, *Tropidosteptes*.

Locality: Ont.

Genus **Neoborops** Uhl.

Haplotype *vigilax* Uhl.

Uhler, Hemip. Colo., p. 36, 1895.

1048. **Neoborops vigilax** Uhl.

Uhler, Hemip. Colo., p. 36, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.

Localities: Colo., Ariz.(?), Pa. (Wirtner).

DIVISION *DERAEOCORARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 29, 445, 1865, family *Deracocoridae*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 208, 1916.

Genus **Cimatlan** Dist.

Haplotype *delicatum* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 281, 1884.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

Eustictus Reuter, Neark. Caps., p. 35, 1909.

1049. **Cimatlan delicatum** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 281, pl. 27, fig. 15, 1884.

Localities: Ariz. (Guatemala.)

1050. **Cimatlan venatorium** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 479, 1912, *Eustictus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus*.

Localities: N. Y., Fla.

1051. **Cimatlan catulum** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 257, 1894, *Megacoelum*.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Megacoelum*.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, 152, 1906, *Megacoelum*.

Reuter, Neark. Caps., p. 86, 1909, *Eustictus*.

Localities: N. Y., Kans., Texas.

1052. **Cimatlan mundum** (Uhl.)

Uhler, Ent. Am., iii, p. 71, 1887, *Megacoelum*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909, *Eustictus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus*.

Localities: Fla., Ga.

1053. **Cimatlan pusillum** (Uhl.)

Uhler, Ent. Am., iii, p. 71, 1887, *Megacoelum*.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Megacoelum*.

Reuter, Neark. Caps., p. 86, 1909, *Eustictus*.

Localities: Colo., Texas.

1054. **Cimatlan grossum** (Uhl.)

Uhler, Check List, p. 18, 1886, *Megacoelum* (a MS name).

Uhler, Ent. Am., iii, p. 70, 1887, *Megacoelum*.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892, *Megacoelum*.

Reuter, Neark. Caps., p. 35, 1909, *Eustictus*.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909, *Eustictus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910, *Eustictus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus*.
 Localities: Mass., N. Y., N. J., Pa., Md., D. C., Fla.

Genus **Diplozona** Van D.

Orthotype *collaris* Van D.

- Van Duzee, Pomona Jl. Ent. Zool., vii, p. 112, 1915.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1055. **Diplozona collaris** Van D.

- Van Duzee, Pomona Jl. Ent. Zool., vii, p. 114, 1915.

Locality: Fla.

Genus **Eurychlopterella** Reut.

Haplotype *luridula* Reut.

- Reuter, Neark. Caps., p. 59, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1915.

1056. **Eurychlopterella luridula** Reut.

- Reuter, Neark. Caps., p. 60, 1909.
 Heidemann, Proc. Ent. Soc. Wash., xii, p. 46, 1910.
 Localities: N. Y., D. C.

Genus **Klopisoris** Van D.

Orthotype *phorodendronae* (Van D.)

- Van Duzee, Pomona Jl. Ent. Zool., vii, p. 115, 1915.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1057. **Klopisoris phorodendronae** (Van D.)

- Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 22, 1914, *Camptobrochis*.
 Locality: Calif.

Genus **Camptobrochys** Fieb.

Logotype *punctulatus* (Fall.)

- Fieber, Wien. Ent. Monat., ii, p. 304, 1858.
 Fieber, Europ. Hemip., p. 64, 1860.
 Walker, Cat. Heter., vi, p. 42, 1873.
 ‡*Camptobrochis* Fieber, Europ. Hemip., p. 248, 1861.
 Douglas and Scott, Brit. Hemip., p. 447, 1865.
 Thomson, Opusc. Ent., iv, p. 427, 1871.
 Reuter, Genera Cimic. Eur., p. 20, 1875.
 Reuter, Rev. Crit. Caps., i, p. 83; ii, p. 68, 1875.
 Provancher, Pet. Faune Ent. Can., iii, p. 115, 1887.
 Reuter, Hemip. Gymn. Eur., v, pp. 37, 348, 1896.
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 460, 1904 (names *punctulatus*
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 140, 1906. [Fall. type).
 Reuter, Neark. Caps., p. 52, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

Subgenus **Camptobrochys** Fieb.

- Reuter, Neark. Caps., p. 54, 1909 (No. 16 in key; no name used).

1058. *Camptobrochys nebulosus* Uhl.

- Uhler, Hayden's Surv. Terr. for 1871, p. 417, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 408, 1878.
Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.
Provancher, Pet. Faune Ent. Can., iii, p. 116, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 265, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
Slosson, Ent. News, vi, p. 321, 1895.
Gillette and Baker, Hemip. Colo., p. 38, 1895.
Osborn, Ohio Nat., i, p. 12, 1900.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Reuter, Neark. Caps., p. 59, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., D. C.,
Fla., Ohio, Kans., Ia., Colo., N. Mex., Ariz., Calif., Wash., B. C.

1059. *Camptobrochys strigulatus* (Walk.)

- Walker, Cat. Heter., vi, p. 94, 1873, *Capsus*.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 111, 1904.
Locality: Canada.

1060. *Camptobrochys validus* Reut.

- Reuter, Neark. Caps., p. 58, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 22, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
a. var. cunealis Reut.
Reuter, Neark. Caps., p. 59, 1909.
Localities: Mass., Pa., D. C., Ia., Colo., Nev., N. Mex., Calif.

1061. *Camptobrochys brevis* Uhl.

- Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Reuter, Neark. Caps., p. 59, 1909.
Localities: N. Mex., Utah, Nev.

1062. *Camptobrochys robustus* Uhl.

- Uhler, Hemip. Colo., p. 39, 1895.
Locality: Colo.

Subgenus *Callicapsus* Reut.Haplotype *histris* Reut.

- Reuter, Caps. Am. Bor., p. 75, 1876.
Reuter, Neark. Caps., p. 54, 1909. (No. 15 in key; no name used.)

1063. **Camptobrochys histrio** Reut.

Reuter, Caps. Am. Bor., p. 75, 1876, *Callicapsus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Callicapsus*.

Blatchley, Psyche, vii, p. 279, 1895, *Callicapsus*.

Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Callicapsus*.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1909, *Callicapsus*.

Reuter, Neark. Caps., p. 58, 1909.

Localities: Pa., "Carolina," Ind., Ia., Kans., Texas, Calif.

Subgenus **Mycterocoris** Uhl.Haplotype *cerachates* (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 358, 1904 (as genus).

Reuter, Neark. Caps., p. 53, 1909. (No. 12 in key; no name used.)

1064. **Camptobrochys cerachates** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 265, 1894, *Deracocoris*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 358, 1904, *Mycterocoris*.

Reuter, Neark. Caps., p. 57, 1909.

Localities: Colo., N. Mex., Calif.

1065. **Camptobrochys schwarzii** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 375, 1893.

Reuter, Neark. Caps., p. 58, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.

Localities: N. Mex., Utah, Calif., Wash., B. C.

1066. **Camptobrochys fulgidus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.

Locality: Calif.

Subgenus **Euarmosus** Reut.Haplotype *sayi* Reut.

Reuter, Caps. Am. Bor., p. 76, 1876 (as genus).

Reuter, Neark. Caps., p. 52, 1909.

1067. **Camptobrochys sayi** Reut.

Reuter, Caps. Am. Bor., p. 76, 1876, *Euarmosus*.

Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Euarmosus*.

Reuter, Neark. Caps., p. 55, 1909.

Localities: Pa., Texas, Colo., Calif.

1068. **Camptobrochys nigritus** Reut.

Reuter, Neark. Caps., p. 55, 1909.

Localities: D. C., Md., Ga.

1069. **Camptobrochys fulvescens** Reut.

Reuter, Neark. Caps., p. 56, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Localities: Colo., Calif.

1070. **Camptobrochys grandis** Uhl.

Uhler, Ent. Am., ii, p. 230, 1887.

Provancher, Pet. Faune Ent. Can., iii, p. 116, 1887.

- Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Reuter, Neark. Caps., p. 56, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Ohio, Md., Mo.,
 Kans., Ia., Colo., N. Mex., B. C.

a. var. *nitens* Reut.

- Reuter, Neark. Caps., p. 56, 1909.
 Parshley, Psyche, xxi, p. 142, 1914.
 Van Duzee, Check List Hemip., p. 41, 1916 (as variety).
 Localities: Ont., Mass., N. Y., D. C., Colo.

Genus *Deraeocoris* Kirschb.

Logotype *olivaceus* (Fabr.)

- Kirschbaum, Rhyng. v. Wiesbd., Caps., pp. 31, 48, 1855.
 Stål, Hemip. Afr., iii, p. 20, 1865.
 Stål, Hemip. Fabr., i, p. 87, 1868.
 Reuter, Genera Cimic. Eur., p. 21, 1875.
 Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 71, 1875.
 Atkinson, Cat. Capsidae, p. 98, 1889.
 Hüeber, Synop. deut. Blindw., i, pp. 80, 378, 1894.
 Reuter, Hemip. Gymn. Eur., v, pp. 18, 348, 1896.
 Distant, Fauna Brit. Ind., ii, p. 465, 1904 (names *olivaceus* Fabr. type).
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 141, 1906 (names *medius* Kirschb.
 Oshanin, Verz. Palae. Hemip., i, p. 748, 1909. [type].
 Oshanin, Kat. Palae. Hemip., p. 67, 1912 (names *ruber* Linn. pseudotype).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.
 †*Capsus* Fieber, Wien. Ent. Monat., ii, p. 307, 1858.
 Fieber, Europ. Hemip., p. 264, 1861.
 Douglas and Scott, Brit. Hemip., p. 441, 1865. [brachialis Stål].
Macrocapsus Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 55, 1879 (type

1071. *Deraeocoris ruber* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 446, 1758; edn. 12, i, p. 723, 1767, *Cimex*.
 Goeze, Ent. Beytr., ii, p. 204, 1778, *Cimex*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 755, 1910.
 Oshanin, Kat. Palae. Hemip., p. 67, 1912.
Cimex No. 17, Geoffroy, Hist. Abrég. des Ins., i, p. 444, 1762.
Cimex No. 50, Geoffroy, Hist. Abrég. des Ins., i, p. 459, 1762.
 †*gothicus* Scopoli, Ent. Carn., p. 131, 1763, *Cimex*.
 Schrank, Enum. Ins. Austr., p. 283, 1781, *Cimex*.
 Rossi, Fauna Etrusc., ii, p. 249, 1790, *Cimex*.

- laniarius* Linnaeus, Syst. Nat., edn. 12, p. 726, 1767, *Cimer*.
 Reuter, Rev. Crit. Caps., ii, p. 72, 1875.
 Saunders, Heter. Brit. Isds., p. 260, 1892, *Capsus*.
 Puton, Cat. Hémipt. Palae., edn. 3, p. 51, 1886, *Capsus*.
capillaris Fabricius, Syst. Ent., p. 725, 1775, *Cimer*.
 Fabricius, Mantissa Ins., ii, p. 305, 1787, *Cimer*.
 Fabricius, Ent. Syst., iv, p. 180, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 244, 1803, *Capsus*.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 232, 1804, *Capsus*.
 Burmeister, Handb. d. Ent., ii, p. 274, 1835, *Capsus*.
 Blanchard, Hist. des Ins., Hémipt., p. 139, 1840, *Phytocoris*.
 Amyot and Serville, Hémipt., p. 281, 1843, *Capsus*.
 Costa, Cimic. Reg. Neap., Cent., iii, p. 44, 1852, *Capsus*.
 Fieber, Europ. Hemip., p. 266, 1861, *Capsus*.
 Douglas and Scott, Brit. Hemip., p. 442, pl. 14, fig. 8, 1865, *Capsus*.
 Stål, Hemip. Fabr., i, p. 87, 1863.
 Thomson, Opusc. Ent., iv, p. 430, 1871.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 408, 1878, *Capsus*.
 Uhler, Check List, p. 19, 1886, *Capsus*.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
cimbricus Muller, Zool. Danicae Prodr., p. 106, 1776, *Cimer*.
 Goeze, Ent. Beytr., ii, p. 252, 1778, *Cimer*.
crocus Goeze, Ent. Beytr., ii, p. 265, 1778, *Cimer*.
 Geoffroy in Fourcroy, Ent. Paris., p. 200, 1785, *Cimer*.
rubro-acuminatus Goeze, Ent. Beytr., ii, p. 268, 1778, *Cimer*.
 ?*luteus* Goeze, Ent. Beytr., ii, p. 278, 1778, *Cimer*.
biguttatus Goeze, Ent. Beytr., ii, p. 278, 1778, *Cimer*.
rubens Harris, Expos. Eng. Ins., p. 90, pl. 26, fig. 10, 1781, *Cimer*.
melinus Harris, Expos. Eng. Ins., p. 90, pl. 26, fig. 11, 1781, *Cimer*.
flammeus Geoffroy in Fourcroy, Ent. Paris., p. 210, 1785, *Cimer*.
rufescens Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2160, 1788, *Cimer*.
 ?*fuliginosus* Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2164, 1788, *Cimer*.
 ?*chrysocephalus* Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2164, 1788, [Cimer].
haematocephalus Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2166, 1788, [Cimer].
haematostictus Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2181, 1788, [Cimer].
adustus Gmelin in Linnaeus, Syst. Nat., edn. 13, iv, p. 2185, 1788, *Cimer*.
bimaculatus Schrank, Fauna Boica, p. 88, 1801, *Cimer*.
olivaceus Schrank, Fauna Boica, p. 89, 1801, *Cimer*. [p. 674, 1806, *Cimer*.]
 †*danicus* Turton in Linnaeus, Syst. Nat., Eng. transl. of Gmelin edn., ii, *geniculatus* Turton in Linnaeus, Syst. Nat., Eng. transl. of Gmelin edn., [ii, p. 687, 1806, *Cimer*.]
 †*seguinus* Reuter, Rev. Synon., p. 279, No. 254, 1888.
 Reuter, Hemip. Gymn. Eur., v, pp. 32, 352, 1896.
r. danicus Fabr.
 Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygaeus*.
 Völff, Icon. Cimic., i, p. 34, 1800, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 245, 1803, *Capsus*.
 Wallén, Monog. Cimic. Suec., p. 93, 1807, *Lygaeus*.

Fallén, Hemip. Suec. Cimic., p. 109, 1829, *Phytocoris*.

Hahn, Wanz. Ins., i, p. 17, fig. 9, 1831, *Capsus*.

b. var. *seguinus* Muller

Muller, Manip. Ins. Taur., p. 191, 1766, *Cimer*.

tricolor Fabricius, Mantissa Ins., p. 306, 1787, *Cimer*.

Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygaeus*.

Wolff, Icon. Cimic., i, p. 35, fig. 35, 1800, *Lygaeus*.

Fabricius, Syst. Rhyng., p. 245, 1803, *Capsus*.

Panzer, Fauna Germ., fascie. xciii, fig. 20, 1804, *Capsus*.

Latreille, Hist. Nat. Crnst. Ins., xii, p. 233, 1804, *Capsus*.

Dufour, Recher. Anat. Hémip., p. 176, 1833, *Capsus*.

Herrieh-Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus*.

Spinola, Essai sur les Hémip., p. 190, 1837 (1840), *Capsus*.

Meyer-Duer, Verz. Schw. Rhyn., p. 108, 1843, *Capsus*.

Kirschbaum, Rhyng. v. Wiesbd., Caps., p. 52, 1855, *Capsus* (*Deraeocoris*).
Flor, Rhyng. Livl., i, p. 509, 1860, *Capsus*.

c. var. *concolor* Reut.

Reuter, Hemip. Gymn. Eur., v, p. 34, 1896.

Localities: N. Y., Pa. (Europe, S. Am.)

1071¼. *Deraeocoris ingens* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

Locality: Calif.

1071½. *Deraeocoris fraternus* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 238, 1916.

Locality: Calif.

Subfamily BRYOCORINAE (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 28, 276, 1865, Fam. *Bryocorinae*.

Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 79, 1875, Div. *Bryocoraria*.

Renter, Genera Cimic. Eur., p. 6, 1875, Div. *Bryocoraria*.

Distant, Biol. Centr. Am., Heter., i, p. 283, 1884, Div. *Bryocoraria*.

Puton, Cat. Hemip. Palae., edn. 3, p. 46, 1886, *Bryocoraria*.

Uhler, Check List, p. 19, 1886, *Bryocoraria*.

Provancher, Pet. Faune Ent. Can., iii, pp. 98, 129, 1887, *Bryocorides*.

Atkinson, Cat. Capsidae, p. 40, 1889, Div. *Bryocoraria*.

Renter, Ann. Soc. Ent. Fr., lxi, p. 393, 1892, Div. *Bryocoraria*.

Hüeber, Synop. deut. Blindw., i, pp. 17, 72, 1894, *Bryocoraria*.

Distant, Fauna Brit. Ind., Rhyn., ii, p. 471, 1904, Div. *Bryocoraria*.

Reuter, Festsch. f. Palmen, i, pp. 24, 29, 1905, Div. *Bryocoraria*.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906, Tribe *Bryocorini*.

Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Bryocorini*.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 33, 1907, Div. *Bryocoraria*.

Oshanin, Verz. Palae. Hemip., i, p. 645, 1909, Div. *Bryocoraria*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 121, 152, 1910.

Oshanin, Kat. Palae. Hemip., p. 70, 1912 (Tribe). [Tribe *Bryocorini*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 209, 1916,

TRIBE PYCNODERINI (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Pycnoderaria*.

Genus **Cyrtocapsus** Reut.Haplotype *caliginus* Stål

Reuter, Caps. Am. Bor., p. 78, 1876.

Reuter, Ann. Soc. Ent. Fr., lxi, p. 393, 1892.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [Dist.).

Pirithous Distant, Biol. Centr. Am., Heter., i, p. 302, 1884 (type *pallipes*1072. **Cyrtocapsus caliginus** (Stål)Stål, Freg. Eug. Resa, Ins., p. 258, 1859, *Capsus*.

Reuter, Caps. Am. Bor., p. 79, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 450, 1893.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 32, 1907; ix, p. 178, 1909.

pallipes (Distant), Biol. Centr. Am., Heter., i, p. 302, pl. 29, fig. 11, 1884,

Localities: Fla., Calif. (West Indies, Mexico.) [Perithous.

Genus **Halticotoma** Reut.Haplotype *valida* Reut.

Reuter, Ann. Soc. Ent. Belg., lvii, p. 278, 1913.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1073. **Halticotoma valida** Reut.

Townsend, Can. Ent., xxiv, p. 194, 1892 (a MS name).

Reuter, Ann. Soc. Ent. Belg., lvii, p. 279, 1913 (described).

luteiceps (Hunter and Pratt), U. S. Dept. Agr., Div. Ent., Bul. u.s. 113,
[p. 36, 1912, *Sirconotus*.

Localities: N. Mex., Ariz., Texas.

Genus **Sixeonotus** Reut.Haplotype *insignis* Reut.

Reuter, Caps. Am. Bor., p. 77, 1875.

Uhler, Ent. Am., iii, p. 149, 1887.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 157, 1907 (description).

Reuter, Neark. Caps., p. 3, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1074. **Sixeonotus insignis** Reut.

Reuter, Caps. Am. Bor., p. 78, 1876.

Gillette and Baker, Hemip. Colo., p. 40, 1895, *Pycnoderes*.Smith, Cat. Ins. N. J., edn. 2, p. 131, 1900, *Eccritotarsus*.Wirtner, Ann. Carn. Mus., iii, p. 196, 1904, *Pycnoderes*.Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Pycnoderes*.Slosson, Ent. News, xvii, p. 326, 1906, *Pycnoderes*.Snow, Trans. Kaus. Acad. Sci., i, pt. 1, pp. 152, 179, 1906, *Pycnoderes*.Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909, *Pycnoderes*.

Reuter, Neark. Caps., p. 3, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: N. H., N. Y., N. J., Md., Pa., Fla., Texas.

1075. **Sixeonotus tenebrosus** (Dist.)Distant, Biol. Centr. Am., Heter., i, p. 441, 1893, *Eccritotarsus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.

Reuter, Neark. Caps., p. 3, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Md., Kans., Fla. (Central America.)

1076. *Sixeonotus luteiceps* Reut.

Reuter, Neark. Caps., p. 4, 1909.

Reuter, Ann. Soc. Ent. Belg., lvii, p. 278, 1913 (notice).

? 1077. *Sixeonotus scabrosus* (Uhl.)

Uhler, Hemip. Colo., p. 40, 1895, *Eccritotarsus*.

Van Duzee, Check List Hemip., p. 41, 1916, *Eccritotarsus*.

Locality: Colo.

[This cannot be an *Eccritotarsus*.]

Genus *Pycnoderes* Guer.

Haplotype *quadrimaculatus* Guer.

Guerin in La Sagra, Hist. de Cuba, vii, p. 168, 1857.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 41, 1907 (description).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916. [Dist.).

Physetonotus Reuter, Ann. Soc. Ent. Fr., lxi, p. 394, 1892 (type *atratus*

Orinonotus Reuter, Ann. Soc. Ent. Fr., lxi, p. 395, 1892 (type *incurvus* Dist.).

Arsinotus Berg, Ann. Soc. Sci. Arg., xxxiv, p. 198, 1892 (type *albipes*

[Berg].)

1078. *Pycnoderes quadrimaculatus* Guer.

Guerin in La Sagra, Hist. de Cuba, vii, p. 169, pl. 13, fig. 12, 1857.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 149, 1907.

Reuter, Neark. Caps., p. 2, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: N. H., Mass., Fla., Texas, Ariz., Calif. (Mexico, West Indies.)

1079. *Pynoderes dilatatus* Reut.

Reuter, Neark. Caps., p. 3, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Localities: N. J., Md., D. C.

1080. *Pycnoderes atratus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 285, pl. 26, fig. 20, 1884, *Eccritotarsus*.

Distant, Biol. Centr. Am., Heter., i, p. 441, 1893, *Eccritotarsus*.

Reuter, Ann. Soc. Ent. Fr., lxi, p. 395, 1892, *Physetonotus*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193, *Eccritotarsus*.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 160, 1907.

Localities: Texas, Calif. (Central America.)

1081. *Pycnoderes incurvus* (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 285, pl. 26, fig. 19, 1884, *Eccritotarsus*.

Distant, Biol. Centr. Am., Heter., i, p. 440, 1893, *Eccritotarsus*.

Reuter, Ann. Soc. Ent. Fr., lxi, p. 396, 1892, *Orinonotus*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193, *Eccritotarsus*.

Reuter, Ann. k. k. Hofms. Wien, xxii, p. 160, 1907.

Localities: "S. St." (Guatemala.)

TRIBE *BRYOCORINI* (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Bryocoraria*.

Genus *Monalocoris* Dahlb.Haplotype *filicis* Linn.

- Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 209, 1851.
 Kirschbaum, Rhyng. v. Wiesbd., Caps., p. 31, 1855.
 Fieber, Wien. Ent. Monat., ii, p. 300, 1858.
 Fieber, Europ. Hemip., pp. 61, 237, 1861.
 Douglas and Scott, Brit. Hemip., p. 278, 1865.
 Walker, Cat. Heter., vi, pp. 40, 159, 1873.
 Reuter, Genera Cimic. Eur., p. 22, 1875.
 Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 79, 1875.
 Provancher, Pet. Faune Ent. Can., iii, p. 129, 1887.
 Hüeber, Synop. deut. Blindw., i, pp. 17, 72, 1894.
 Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 161, 1907 (description).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1082. *Monalocoris filicis* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 443, 1758; edn. 12, i, p. 718, 1767, *Cimex*.
 Wolff, Icon. Cimic., ii, p. 46, fig. 43, 1801, *Acanthia*.
 Fallén, Monog. Cimic. Suec., p. 92, 1807, *Lygaeus*.
 Fallén, Hemip. Suec. Cimic., p. 108, 1829, *Phytocoris*.
 Hahn, Wanz. Ins., ii, p. 86, fig. 172, 1834, *Phytocoris*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus*.
 Meyer-Duer, Verz. Schw. Rhyng., p. 71, 1843, *Capsus*.
 Kolenati, Melet. Ent., ii, p. 129, 1845, *Bryocoris*.
 Sahlberg, Monog. Geoc. Fenn., p. 113, 1848, *Capsus*.
 Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 209, 1851.
 Kirschbaum, Rhyng. v. Weisbd., Caps., p. 70, 1855, *Capsus*.
 Flor, Rhyng. Livl., i, p. 539, 1850, *Capsus*.
 Fieber, Europ. Hemip., p. 238, 1861.
 Douglas and Scott, Brit. Hemip., p. 279, pl. 10, fig. 2, 1865.
 Thomson, Opusc. Ent., iv, p. 433, 1871, *Bryocoris*.
 Reuter, Rev. Crit. Caps., ii, p. 79, 1875.
 Reuter, Caps. Am. Bor., p. 76, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876; iii, p. 413, 1877.
 Provancher, Pet. Faune Ent. Can., iii, p. 130, 1887.
 Uhler, Ent. Am., iii, p. 150, 1887.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Reuter, Rev. Synon., p. 284, No. 256, 1888.
 Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Saunders, Heter. Brit. Isds., p. 130, 1892.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
 Hüeber, Synop. deut. Blindw., i, p. 73, 1894.
 Slosson, Ent. News, v, p. 5, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 195, 1904.
 Heidemann, Jh. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1908.

Moore, Can. Ent., xxxix, p. 163, 1907.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Van Duzee, Can. Ent., xl, p. 112, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Parshley, Psyche, xxi, p. 142, 1914.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
Fla., Wis., B. A. (Europe, Mexico.)

TRIBE *ECSCRITOTARSINI* (Berg)

Berg, Hemip. Arg., Add., p. 81, 1884, Div. *Ecscritotarsaria* Reut. *in litt.*

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Ecscritotarsaria*.

Genus **Sysinas** Dist.

Logotype *audens* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 248, 1883.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 36, 1907 (redescribed).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1083. **Sysinas linearis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 248, pl. 23, fig. 21, 1883.

Banks, Cat. Neare. Hemip., p. 38, 1910.

Localities: "N. Y." (Banks). (Mexico.)

Genus **Dacota** Uhl.

Haplotype *hesperia* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 162, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1084. **Dacota hesperia** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 414, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876.

Localities: Dak., Colo.

Genus **Caulotops** Bergr.

Haplotype *puncticollis* Bergr.

Bergroth, Wien. Ent. Zeit., xvii, p. 33, 1898.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 154, 1907 (description).

Reuter, Neark. Caps., p. 2, 1909 (correction).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1085. **Caulotops agavis** Reut.

Reuter, Neark. Caps., p. 1, 1909.

Locality: Ariz.

(*Tenthecoris bicolor* Scott, see additions at end of volume.)

Genus **Hesperolabops** Kirk.

Haplotype *gclastops* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 249.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 131, 1906.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 151, 1907 (redescribed).

1086. *Hesperolabops gelastops* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 250, pl. 5, fig. 2.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 152, 1907 (redescribed).

[*pieta* Uhl. MS] in lit.

Localities: Texas. (Mexico.)

Subfamily CLIVINEMINAE (Reut.)

Reuter, Caps. Am. Bor., p. 62, 1875, Div. *Clivinemaria*.Reuter, Festsch. f. Palmen, i, p. 23, 1905, Div. *Clivinemaria*.Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906, Tribe *Clivinemini*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 210, 1916.

Bothriomirini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906, Tribe.*Ambraciini* Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 124, 154, 1910,

[Subfam. *Ambraciina* and Div. *Ambraciaria*.Genus *Clivinema* Reut.Haplotype *villosa* Reut.

Reuter, Caps. Am. Bor., p. 63, 1876.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1087. *Clivinema villosa* Reut.

Reuter, Caps. Am. Bor., p. 63, 1876.

Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

Barber, Brookl. Ins. Sci. Bul., i, p. 278, 1906.

Localities: Colo., Utah, Texas, Ariz.

1087½. *Clivinema regalis* Kngt.

Knight, Ent. News, xxviii, p. 5, 1917.

Locality: Texas.

Genus *Largidea* Van D.Orthotype *marginata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 480, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1088. *Largidea rubida* (Uhl.)Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Clivinema*.

Van Duzee, Check List Hemip., p. 42, 1916.

Locality: N. Mex.

1089. *Largidea marginata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.

Locality: Colo.

[Not *rubida* Uhler.]1089½. *Largidea grossa* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 238, 1916.

Locality: Calif.

1089¾. *Largidea davisii* Kngt.

Knight, Ent. News, xxviii, p. 7, 1917.

Locality: N. Y.

Subfamily CYLAPINAE (Popp.)

- Poppus, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 1, 1909, *Cylapina*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 125, 1910, *Cylapina*.

TRIBE CYLAPINI (Kirk.)

- Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903, Div. *Cylaparia* (part).
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 433, 1904, Div. *Cylaparia*.
 Reuter, Festsch. f. Palmen, i, pp. 19, 28, 1905, Div. *Cylaparia*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 134, 1906.
 Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Cylapini*.
 Poppus, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 1, 1909, Div. *Cylaparia*.
 Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 76, 1907, Div. *Cylaparia*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 127, 1910, Div. *Cylaparia*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.
Valdasaria Distant, Biol. Centr. Am., Heter., i, p. 242, 1883 (division).

Genus *Cylapus* SayLogotype *tenuicornis* Say

- Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 791; Compl. Writ., i, Distant, Biol. Centr. Am., Heter., i, p. 419, 1893. [p. 347.]
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 134, 1906.
 Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 76, 1907 (description).
 Poppus, Acta Soc. Sci. Fenn., xxxvii, No. 4, pp. 3, 9, 10, 1909.
 Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 56, 1913 (description).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [tion].
Valdasus Stål, Rio Jan. Hemip., i, p. 56, 1858.
 Distant, Biol. Centr. Am., Heter., i, p. 243, 1883.

1090. *Cylapus tenuicornis* Say

- Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 792; Compl. Writ., i, Uhler, Check List, p. 20, 1886. [p. 347.]
 Heidemann, Proc. Ent. Soc. Wash., ii, p. 68, 1891.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 123, 1891.
 Banks, Ent. News, iv, p. 268, 1893.
 Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
 Poppus, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 10, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
 Localities: Ont., N. Y., Pa., Md., Ind.

TRIBE FULVINI (Uhl.)

- Uhler, Check List, p. 19, 1886, *Fulvaria*.
 Reuter, Ent. Tidskr., xvi, p. 133, 1895, Div. *Fulvaria*.
 Reuter, Festsch. f. Palmen, i, pp. 17, 27, 1905, Div. *Fulvaria*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906.
 Kirkaldy, Can. Ent., xxxviii, p. 371, 1906.
 Reuter, Neark. Caps., p. 65, 1909, Div. *Fulvaria*.
 Poppus, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 18, 1909, Div. *Fulvaria*. (Key.)
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 126, 1910, Div. *Fulvaria*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 204, 1916.
Teratodellaria Reuter, Rev. Crit. Caps., i, p. 75, 1875. (Division.)
 Reuter, Genera Cimic. Eur., p. 5, 1875. (Division.)

- Reuter, Hemip. Gymn. Eur., iii, p. 564, 1884. (Division.)
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 470, 1904.
Peritropini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.

Genus **Fulvius** StålHaplotype *anthocoroides* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.
 Distant, Biol. Centr. Am., Heter., i, p. 281, 1884.
 Reuter, Ent. Tidskr., xvi, p. 129, 1895. (Monograph.)
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906.
 Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 29, 1909. (Key.)
Teratodella Reuter, Genera Cimic. Eur., p. 7, 1875. (Type *anthocoroides*
 Reuter, Rev. Crit. Caps., i, p. 77, 1875. [Rent.]
 Bergroth, Ent. Nachr., v, p. 108, 1879. [*anthocoroides* Uhl.]
Pamerochoris Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 424, 1877. (Type
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 412, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 126, 1887.
Camelocapsus Reuter, Bul. Soc. Ent. Fr., ser. 5, viii, p. cv, 1878. (Type
 [*orycaenoides* Reut.]

1091. **Fulvius brunneus** (Prov.)

- Provancher, Nat. Can., iv, p. 104, 1872. *Lygus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887, *Pamerochoris*.
 Reuter, Ent. Tidskr., xvi, p. 140, 1895.
 Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 31, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910. [*Pamerochoris*.
 ||*anthocoroides* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 425, 1877,
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878, *Pamerochoris*.
 Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894, *Pamerochoris*.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
 Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Pamerochoris*.
 Localities: Ont., Mass., N. Y., N. J., Md., D. C., Wis., Ia., Kans.,
 Colo., Calif.

1092. **Fulvius imbecilis** (Say)

- Say, Hemip. N. Harm., p. 25, 1832; Fitch reprint, p. 790; Compl. Writ., i, p.
 Uhler, Check List, p. 19, 1886, *Pocilloscytus imbecillus*. [345, *Capsus*.
 Van Duzee, Check List Hemip., p. 42, 1916.
heidemanni Reuter, Ent. Tidskr., xvi, p. 142, 1895 (*heidemanni*).
 Wirtner, Ann. Carn. Mus., iii, p. 195, 1904.
 Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 31, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
 Localities: Pa., Md., Del., Va., Ind.

1093. **Fulvius atratus** Dist.

- Distant, Biol. Centr. Am., Heter., i, p. 282, pl. 27, fig. 18, 1884.
 Reuter, Ann. Soc. Ent. Fr., lxi, p. 391, 1892.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 192.
 Reuter, Ent. Tidskr., xvi, p. 148, 1895.

Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 32, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: "U. S.," Fla. (Neotropical.)

Genus **Peritropis** Uhl.

Haplotype *saldacformis* Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 121, 1891.

Reuter, Neark. Caps., p. 66, 1909.

Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 24, 1909.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 42, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [Dist.]

Mecinus Distant, Hemip. Brit. Ind., Rhyn., ii, p. 453, 1904. (Type *lewisi*

1094. **Peritropis saldacformis** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 122, 1891.

Reuter, Neark. Caps., p. 66, 1909.

Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 24, 1909.

Localities: Pa., D. C., Ill., Texas. (Neotropical.)

Subfamily **DICYPHINAE** Osh.

Oshanin, Kat. Palae. Hemip., p. 70, 1912.

Van Duzee, Check List. Hemip., p. 42, 1916.

Macrolophina Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 118, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.

TRIBE **HALLODAPINI** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 204, 210,

Myrmicocoridae Douglas and Scott, Brit. Hemip., pp. 34, 628, 1865. [1916.

Eroticoridae Douglas and Scott, Brit. Hemip., pp. 471, 628, 1865.

Cremnocephalaria Reuter, Neark. Caps., p. 64, 1909. (Division.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 119, 120, 150, 1910.

Oshanin, Kat. Palae. Hemip., p. 71, 1912. (Tribe.) [(Division.)

Systellonotaria Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. [46, 1912. (Division.)

Genus **Dacerla** Bergr.

Haplotype *inflatus* Uhl.

*Signoret, Bul. Soc. Soc. Ent. Fr. for 1881, p. elvii.

Bergroth, Ent. News, viii, p. 95, 1897.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 132, 1906.

Reuter, Neark. Caps., p. 8, 1909.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

||*Myrmecopsis* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 276, 1894 (type [*inflatus* Uhl.).

1095. **Dacerla inflata** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 277, 1894, *Myrmecopsis*.

Reuter, Neark. Caps., p. 8, 1909 (description).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 239, 1916.

**mediospinosa* Signoret, Bul. Soc. Ent. Fr. for 1881, p. elvii.

Locality: Calif.

Genus **Cyrtopeltocoris** Reut.
Haplotype *albo-fasciatus* Reut.

Reuter, Caps. Am. Bor., p. 81, 1876.

Reuter, Neark. Caps., p. 65, 1909, *Syrtopeltocoris*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1096. **Cyrtopeltocoris albo-fasciatus** Reut.

Reuter, Caps. Am. Bor., p. 81, 1876.

Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906.

Localities: Colo., Texas.

Genus **Sericophanes** Reut.
Haplotype *ocellatus* Reut.

Reuter, Caps. Am. Bor., p. 79, 1876.

Reuter, Neark. Caps., p. 65, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

Myrmecopeplus Berg, Hemip. Arg. Add., p. 84, 1884 (type *ornatus* Berg).

1097. **Sericophanes ocellatus** Reut.

Reuter, Caps. Am. Bor., p. 79, 1876.

Popenoe, Trans. Kans. Acad. Sci., ix, pp. 63, 233, 1885.

Van Duzee, Can. Ent., xix, p. 72, 1887.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.

Osborn, Proc. Ia. Acad. Sci., v, p. 238, fig. 16, 1898.

Montgomery, Ent. News, xiii, p. 13, 1902.

Localities: Mass., N. Y., Ia., Kans., Texas.

1097¹/₂. **Sericophanes noctuans** Knegt.

Knight, Ent. News, xxviii, p. 4, 1917.

Locality: N. Y.

Sericophanes sp.

Heidemann, Proc. Ent. Soc. Wash., xii, p. 46, 1910.

Genus **Teleorhinus** Uhl.
Haplotype *cyaneus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 74, 1890.

1098. **Teleorhinus cyaneus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 75, 1890.

Locality: Calif.

Genus **Closterocoris** Uhl.
Haplotype *ornata* Uhl. = *amoenus* Prov.

Uhler, Trans. Md. Acad. Sci., i, p. 76, 1890.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

†*Pygnopterna* Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887.

1099. **Closterocoris amoenus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887, *Pygnopterna*.

Harrington, Ottawa Nat., vi, p. 27, 1892, *Pygnopterna*.

Van Duzee, Can. Ent., xlv, p. 321, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 26, 1914.

ornata Uhler, Trans. Md. Acad. Sci., i, p. 77, 1890.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.

Localities: Calif., "Ottawa" (accidental) Prov.

Genus **Cyphopelta** Van D.

Orthotype *modesta* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 81, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1100. **Cyphopelta modesta** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 81, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 26, 1914.

Locality: Calif.

Genus **Orectoderus** Uhl.

Haplotype *obliquus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876.

Reuter, Neark. Caps., p. 65, 1909.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1101. **Orectoderus obliquus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 320, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.

Gillette and Baker, Hemip. Colo., p. 47, 1895.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 249, figs. 1, 2, 5, 23.

Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 47, 1912.

Parshley, Psyche, xxi, p. 142, 1914.

Localities: Ont., Me., N. Y., N. J., Colo., Manitoba.

1102. **Orectoderus longicollis** Uhl.

Uhler, Hemip. Colo., p. 47, 1895.

Locality: Colo.

Genus **Coquillettia** Uhl.

Haplotype *insignis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 78, 1890.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1103. **Coquillettia insignis** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 79, 1890.

Gillette and Baker, Hemip. Colo., p. 48, 1895.

Snow, Univ. Kans. Sci. Bul., ii, p. 348, 1904.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

Van Duzee, San Diego Soc. Nat. Hist., ii, p. 26, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.

Localities: Kans., Colo., Ariz., Calif.

1104. **Coquillettia mimetica** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 236, 1898.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

- Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Reuter, Neark. Caps., p. 61, 1909.
 Smith, Cat. Ins. N. J., edn. 3, 161, 1910.
 Parshley, Psyche, xxi, p. 142, 1914.

a. var. discoidalis Reut.

- Reuter, Neark. Caps., p. 61, 1909.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Ohio, Ia., Kans.

Genus **Dicyphus** Fieb.

Logotype *pallidus* H. S.

- Fieber, Wien. Ent. Monat., ii, p. 327, 1858.
 Fieber, Europ. Hemip., pp. 77, 325, 1861.
 Thomson, Opusc. Ent., iv, p. 435, 1871.
 Reuter, Genera Cimic. Eur., p. 27, 1875.
 Reuter, Rev. Crit. Caps., i, p. 89; ii, p. 110, 1875.
 Reuter, Ent. Mo. Mag., xx, p. 49, 1883.
 Reuter, Hemip. Gymn. Eur., iii, pp. 411, 559, 1883.
 Provancher, Pet. Faune Ent. Can., iii, p. 139, 1887.
 Oshanin, Verz. Palae. Hemip., i, p. 812, 1909.
 Reuter, Of. Finska. Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 60, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
Brachyceraca Fieber, Wien. Ent. Monat., ii, p. 327, 1858 (Haplotype
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906. [*geniculata* Fieb.]).
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, 1910.
Idolocoris Douglas and Scott, Brit. Hemip., p. 374, 1865. (Type *palli-*
Provancher, Pet. Faune Ent. Can., iii, p. 140, 1887. [*cornis* D. & S.]

1107. **Dicyphus californicus** (Stål)

- Stål, Freg. Eug. Resa, Ins., p. 259, 1859, *Capsus*.
 Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris*.
 Reuter, Caps. Am. Bor., p. 82, 1876.
 Provancher, Pet. Faune Ent. Can., iii, p. 140, 1887.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.
 Gillette and Baker, Hemip. Colo., p. 46, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
 Localities: Ont., N. H., N. Y., Pa., Kans., Colo., Calif. (Eastern
 references uncertain.)

1108. **Dicyphus agilis** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 425, 1877, *Idolocoris*.
 Provancher, Pet. Faune Ent. Can., iii, p. 141, 1887, *Idolocoris*.

- Van Duzee, Can. Ent., xix, p. 72, 1887, *Idolocoris*.
 Van Duzee, Can. Ent., xxi, p. 4, 1889, *Idolocoris*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Idolocoris*.
 Harrington, Ottawa Nat., vi, p. 28, 1892, *Idolocoris*.
 Gillette and Baker, Hemip. Colo., p. 46, 1895 (as var. of *californicus*).
 Slosson, Ent. News, ix, p. 251, 1889.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 Parshley, Psyche, xxi, p. 142, 1914, *Idolocoris*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
?luctuosus Prov., Pet. Faune Ent. Can., iii, p. 137, 1887, *Chlamydatius*.
 Localities: Quebec, Ont., N. Y., N. H., Ia., Colo., Utah, Calif.,
 Wash., B. C.

1108½. **Dicyphus crudus** Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
 Locality: Calif.

1109. **Dicyphus famelicus** (Uhl.)

- Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 413, 1878, *Idolocoris*.
 Van Duzee, Can. Ent., xix, p. 72, 1887, *Idolocoris*.
 Harrington, Ottawa Nat., vi, p. 28, 1892, *Idolocoris*.
 Slosson, Ent. News, vi, p. 321, 1895.
 Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Smith, Cat. Ins. N. J., edn. 3, 161, 1910.
 Localities: Ont., N. H., N. Y., N. J., Pa.

1110. **Dicyphus vestitus** Uhl.

- Uhler, Hemip. Colo., p. 46, 1895.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
 Localities: N. H., N. Y., Dak., Colo., N. Mex., Calif.

1111. **Dicyphus minimus** Uhl.

- Uhler, Ent. News, x, p. 59, 1899.
§minutus Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
 Localities: D. C., Fla., N. Mex., Colo., Calif.

Genus **Engytatus** Reut.

Haplotype *geniculatus* Reut.

- Reuter, Caps. Am. Bor., p. 82, 1876.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, note, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
†Cyrtopeltis Reuter, Neark. Caps., p. 62, 1909.

1112. **Engytatus geniculatus** Reut.

- Reuter, Caps. Am. Bor., p. 83, 1876.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.

- Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 152, note, 1910.
varians Distant, Biol. Centr. Am., Heter., i, p. 271, pl. 26, fig. 7, 1884.
 Reuter, Neark. Caps., p. 62, 1909, *Cyrtopeltis*. [Neoproba.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Localities: Fla., Texas.

1113. **Engytatus simplex** (Reut.)

- Reuter, Neark. Caps., p. 63, 1909, *Cyrtopeltis*.
 Locality: Calif.

1114. **Engytatus melanocephalus** (Reut.)

- Reuter, Neark. Caps., p. 63, 1909, *Cyrtopeltis*.
 Locality: Texas.

1115. **Engytatus tenuis** (Reut.)

- Reuter, Revue d'Ent., xiv, p. 139, 1895, *Cyrtopeltis*.
 Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 16, p. 21, 1903, *Cyrtopeltis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909, *Cyrtopeltis*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, note, 1910.
 Localities: Fla. (Palearctic.)

Genus **Macrolophus** Fieb.

Logotype *nubilus* Fieb.

- Fieber, Wien. Ent. Monat., ii, p. 326, 1858.
 Fieber, Europ. Hemip., pp. 76, 321, 1861.
 Douglas and Scott, Brit. Hemip., p. 381, 1865.
 Reuter, Genera Cimic. Eur., p. 27, 1875.
 Reuter, Rev. Crit. Caps., i, p. 89; ii, p. 109, 1875.
 Reuter, Hemip. Gymn. Eur., iii, pp. 435, 559, 1883.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.

1116. **Macrolophus separatus** (Uhl.)

- Uhler, Check List, p. 20, 1886 (nomen nudum).
 Van Duzee, Can. Ent., xxi, p. 4, 1889 (nomen nudum).
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 194, *Dicyphus* (described).
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
 Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907, *Dicyphus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909, *Dicyphus*.
 Reuter, Neark. Caps., p. 62, 1909.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 †*famelicus* Provancher, Pet. Faune Ent. Can., iii, p. 141, 1887, *Idolocoris*.
 Localities: Ont., Mass., N. Y., Pa., Md., Fla., Ohio, Ia., Colo.,
 Texas, N. Mex., Calif.

Subfamily **ORTHOTYLINAE** Van. D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 203, 1916.
 Van Duzee, Check List Hemip., p. 43, 1916.
Heterotominae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 114, 1910.
Cyllocorinae Oshaniin, Kat. Palae. Hemip., p. 72, 1912.

TRIBE ORTHOTYLINI Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 211, 1916.

Van Duzee, Check List Hemip., p. 43, 1916.

Cyllocoraria Reuter, Genera Cimic. Eur., pp. 6, 22, 1875.

Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 81, 1875. (Division.)

Reuter, Hemip. Gymn. Eur., iii, pp. 319, 567, 1883. (Division.)

Reuter, Festschr. f. Palmen, i, pp. 16, 27, 1905. (Division.)

Oshanin, Verz. Palae. Hemip., p. 826, 1909. (Division.)

Reuter, Neark. Caps., p. 66, 1909. (Division.)

Oshanin, Kat. Palae. Hemip., p. 72, 1912, Tribe *Cyllocoraria*.

Callicoraria Uhler, Check List, p. 19, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 99, 1886, *Callicorides*.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Callicorinae*.

Heterotomaria Kirkaldy, Fauna Hawai., iii, p. 132, 1902. (Division.)

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906, Tribe *Heterotomini*.

Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Heterotomini*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 117, 148, 1910.

[(Division.)]

Poppius, Of. Finska Vet.-Soc. Forh., lii, Afd. A, No. 2, p. 31, 1911.

[(Division.)]

DIVISION LABOPARII Reut.

Reuter, Hemip. Gymn. Eur., iii, p. 567, 1883 (part).

Puton, Cat. Hémip. Palae., edn. 3, p. 53, 1886 (part).

Atkinson, Cat. Capsidae, p. 117, 1889 (part).

Reuter, Hemip. Gymn. Eur., iv, p. 17, 1891 (part).

Distant, Fauna Brit. Ind., Rhyn., ii, p. 479, 1904 (part).

Reuter, Festschr. f. Palmen, i, pp. 19, 28, 1905 (part).

Banks, Cat. Neark. Hemip., p. 38, 1910, *Labopini* (part).

Oshanin, Kat. Palae. Hemip., p. 74, 1912. (Tribe.)

[stricted].

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916 (re-

Genus **Labops** Burm.

Haplotype *diopsis* Burm.

Burmeister, Handb. d. Ent., ii, p. 279, 1835.

Fieber, Wien. Ent. Monat., ii, p. 316, 1858.

Fieber, Europ. Hemip., pp. 71, 294, 1861.

Thomson, Opusc. Ent., iv, p. 432, 1871.

Walker, Cat. Heter., vi, p. 44, 1873.

Reuter, Genera Cimic. Eur., p. 24, 1875.

Reuter, Rev. Crit. Caps., i, p. 86; ii, p. 97, 1875.

Provancher, Pet. Faune Ent. Can., iii, p. 135, 1887.

Reuter, Hemip. Gymn. Eur., iv, pp. 80, 160, 1891.

Hüeber, Synop. deut. Blindw., ii, p. 5, 1894?

Oshanin, Verz. Palae. Hemip., i, p. 786, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.

Ophthalmocoris Zetterstedt, Ins. Lapp., column 280, 1840.

1117. **Labops hesperius** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 416, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 417, 1877.

Provancher, Pet. Faune Ent. Can., iii, p. 135, 1887.

- Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
 Gillette and Baker, Hemip. Colo., p. 46, 1895.
 Slosson, Ent. News, vi, p. 321, 1895.
 Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
 Van Duzee, Ottawa Nat., xxvi p. 68, 1912.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
 Localities: Quebec, Ont., N. H., N. Y., Colo., N. Mex., Calif.

1118. *Labops burmeisteri* Stål

- Stål, Stet. Ent. Zeit., xix, p. 189, 1858.
 Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 59, 1878.
 Reuter, Hemip. Gymn. Eur., iv, pp. 83, 169, 1891.
 Oshanin, Verz. Palae. Hemip., i, p. 786, 1909.
 Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125.
 Localities: Ont., N. Y., Alaska. (Siberia.)

DIVISION *HALTICARIA* Kirk.

- Kirkaldy, Fauna Hawai., iii, p. 139, 1902.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906, Tribe *Halticini*.
 Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Halticini*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 115, 1910.
 Poppius, Of. Finska Vet.-Soc. Forh., liii, Afd. A, No. 2, p. 33, 1911.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
 Van Duzee, Check List Hemip., p. 43, 1916. [(Family.)]
Halticocoridae Douglas and Scott, Brit. Hemip., pp. 35, 478, 1865.
Stiphrosomidae Douglas and Scott, Brit. Hemip., pp. 35, 481, 1865.
 [(Family.)]
 [Divisions *Diplacaria*, *Myrmecophyaria* and *Hypselloecaria* Reut. are not found in our territory.]

Genus *Halticus* Hahn

Haplotype *pallicornis* (Fabr.) = *apterus* (Linn.)

- Hahn, Wanz. Ins., i, p. 113, 1831.
 Burmeister, Handb. d. Ent., ii, p. 277, 1835.
 Fieber, Wien. Ent. Monat., ii, p. 312, 1858.
 Fieber, Europ. Hemip., pp. 69, 281, 1861.
 Thomson, Opusc. Ent., iv, p. 441, 1871.
 Reuter, Genera Cimic. Eur., p. 23, 1875.
 Reuter, Rev. Crit. Caps., i, p. 86, ii, p. 89, 1875.
 Reuter, Hemip. Gymn. Eur., iv, pp. 17, 157, 1891.
 Hübner, Synop. deut. Blindw., ii, pp. 2, 42, 1894?
 Distant, Fauna Brit. Ind., Rhyn., ii, p. 479, 1904.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
 [*Orthomotus* Westw. MS], Stephens, Syst. Cat. Brit. Ins., p. 344, 1829.
Astemma, Latreille in Cuvier, Règne Anim., edn. 2, v, p. 199, 1829 (type Amyot and Serville, Hémip., p. 284, 1843. [*pallicornis* Fabr.]

- Eurycephala* Laporte, Essai Classif. Syst. Hémipt., p. 36, 1832 (type
 Brullé, Hist. des Ins., ix, p. 410, 1835. [*luteicollis* L. & S.).
 Spinola, Essai sur les Hémipt., p. 191, 1837 (1840).
 Blanchard, Hist. des Ins., Hémipt., p. 140, 1840. [Panz. type).
 †*Miris* Laporte, Essai Classif. Syst. Hémipt., p. 39, 1832 (names *luteicollis*
Halticocoris Douglas and Scott, Brit. Hemipt., p. 478, 1865 (type *palli-*
cornis Fabr.).

1119. *Halticus apterus* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada*.
 Linnaeus, Fauna Suec., new edn., No. 894, 1861, *Cicada*.
 Brullé, Hist. des Ins., ix, p. 410, pl. 33, fig. 6, 1835, *Eurycephala*.
 Blanchard, Hist. des Ins., Hémipt., p. 140, 1840, *Eurycephala*.
 Amyot and Serville, Hémipt., p. 284, 1843, *Astemma*.
 Reuter, Rev. Crit. Caps., ii, p. 90, 1875.
 Uhler, Check List, p. 20, 1886.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Reuter, Rev. Synon., p. 286, No. 259, 1888.
 Reuter, Hemipt. Gymn. Eur., iv, pp. 18, 161, pl. 1, fig. 5, 1891.
 Saunders, Heter. Brit. Isds., p. 268, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
 Hübner, Synop. dent. Blindw., ii, p. 44, 1894?
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
pallicornis Fabricius, Ent. Syst., iv, p. 69, 1794, *Acanthia*.
 Fabricius, Syst. Rhyng., p. 115, 1803, *Salda*.
 Wolff, Icon. Cimic., iv, p. 122, fig. 122, 1804, *Acanthia*.
 Fallén, Monog. Cimic. Suec., p. 95, 1807, *Lygaeus*.
 Fallén, Hemipt. Suec., Cimic., p. 113, 1829, *Phytocoris*.
 Latreille in Cuvier, Règne Anim., edn. 2, v, p. 199, 1829, *Astemma*.
 Hahn, Wanz. Ins., i, p. 114, fig. 61, 1831.
 Herrich-Schaeffer, Nomen. Ent., i, p. 53, 1835, *Capsus*.
 Burmeister, Handb. d. Ent., ii, p. 278, 1835.
 Spinola, Essai sur les Hémipt., p. 191, 1837 (1840), *Eurycephala*.
 Blanchard, Hist. des Ins., Hémipt., p. 140, 1840, *Eurycephala*.
 Meyer-Duer, Verz. Schw. Rhyng., p. 110, 1843, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 102, 1855, *Capsus* (*Eury-*
Kolenati, Melet. Ent., ii, p. 130, 1845, *Eurycephala*. [*merocoris*).
 Sahlberg, Monog. Geoc. Fenn., p. 118, 1848, *Capsus*.
 Costa, Cimic. Reg. Neap., Cent. iii, p. 53, 1852.
 Fieber, Europ. Hemipt., p. 282, 1861.
 Fieber, Wien. Ent. Monat., viii, p. 221, 1864.
 Douglas and Scott, Brit. Hemipt., p. 479, 1865, *Halticocoris*.
 Thomson, Opusc. Ent., iv, p. 441, 1871, *Capsus*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 411, 1878, *Halticocoris*.
 †*pallidicornis* Herrich-Schaeffer, Nomen. Ent., i, p. 53, 1835, *Capsus*.
 Flor, Rhyn. Livl., i, p. 583, 1860, *Capsus*.
 Localities: N. H., Mass., N. Y., Pa., Md., Ill., Colo.

1120. *Halticus intermedius* Uhl.

- Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.

1121. *Halticus bracteatus* (Say)

- Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 792; Compl. Writ., i, p. Uhler, Check List, p. 20, 1886. [348, *Cylapus*.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
 Gillette and Baker, Hemip. Colo., p. 46, 1895.
 Webster, 27th Rept. Ent. Soc. Ont., p. 83, 1896.
 Webster, Ent. News, viii, p. 209, with figs., 1897.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
 Localities: Ont., N. Y., Ohio, Ind., Kans., Colo.

1122. *Halticus citri* (Ashm.)

- Ashmead, Ent. Am., iii, p. 155, 1887, *Rhinocloa*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Parshley, Psyche, xxi, p. 142, 1914. [10, 11, 1889.
 [*minutus* Uhler MS] Popenoe, 2d Rept. Kans. Exp. Sta., p. 212, pl. 9, figs. *uhleri* Giard, Compt. Rend. Soc. Biol., ser. 9, iv, p. 81, 1892.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 195.
 Osborn, Ohio Nat., i, p. 12, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
 Reuter, Wien. Ent. Zeit., xxvii, p. 53, 1908.
 Reuter, Neark. Caps., p. 71, 1909.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
canus (Distant), Biol. Centr. Am., Heter., i, p. 430, pl. 37, figs. 11, 12, Kirkaldy, Entomol., xxxvii, p. 179, 1904. [1893, *Calocoris*.
 Localities: Ont., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., Ohio, Ill., Kans., Mo., Utah.

[*Halticus nitidus* Uhl. MS]

- Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.

Genus *Strongylocoris* Blanch.Haplotype *leucoccephalus* Linn.

- Blanchard, Hist. des Ins., Hémip., p. 140, 1840.
 Costa, Cimic. Reg. Neap., Cent., iii, p. 48, 1852.
 Puton, Cat. Hémip. Palae., edn. 3, p. 53, 1886.
 Atkinson, Cat. Capsidae, p. 119, 1889.
 Reuter, Hemip. Gymn. Eur., iv, pp. 26, 157, pl. 1, fig. 6, 1891.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 148, 1910.
 Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 211, 1916.

Stiphrosomus Fieber, Wien. Ent. Monat., ii, p. 312, 1858 (Logotype *leuco-*
 ‡*Stiphrosoma* Fieber, Europ. Hemip., pp. 69, 280, 1861. [*cephalus* Linn.]

Douglas and Scott, Brit. Hemip., p. 481, 1865.

Walker, Cat. Heter., vi, p. 43, 1873.

Reuter, Genera Cimic. Eur., p. 23, 1875.

Reuter, Crit. Rev. Caps., i, p. 85; ii, p. 87, 1875.

Uhler, Check List, p. 20, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.

1123. ***Strongylocoris stygicus*** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 789; Compl. Writ., i, p.
 [344, *Capsus*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Stiphrosoma*.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878, *Stiphrosoma*.

Provancher, Pet. Faune Ent. Can., iii, p. 132, 1887, *Stiphrosoma*.

Van Duzee, Can. Ent., xix, p. 72, 1887; xxi, p. 4, 1889, *Stiphrosoma*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Stiphrosoma*.

Harrington, Ottawa Nat., vi, p. 28, 1892, *Stiphrosoma*.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Stiphrosoma*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Stiphrosoma*.

Gillette and Baker, Hemip. Colo., p. 49, 1895, *Stiphrosoma*.

Osborn, Ohio Nat., i, p. 12, 1900, *Stiphrosoma*.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 110, 1903, *Stiphrosoma*.

Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Stiphrosoma*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Stiphrosoma*.

Moore, Can. Ent., xxxix, p. 163, 1907, *Stiphrosoma*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Van Duzee, Can. Ent., xl, p. 113, 1908, *Stiphrosoma*.

Van Duzee, Can. Ent., xlv, p. 322, 1912, *Stiphrosoma*.

Parshley, Psyche, xxi, p. 142, 1914, *Stiphrosoma*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., N. C.,

Ohio, Ia., Colo., N. Mex., Calif.

1124. ***Strongylocoris atratus*** (Uhler)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894, *Stiphrosoma*.

Gillette and Baker, Hemip. Colo., p. 45, 1895, *Stiphrosoma*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Stiphrosoma*.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: Colo., N. Mex., Calif.

1125. ***Strongylocoris croceipes*** (Uhler)

Uhler, Proc. Ent. Soc. Wash., ii, p. 373, 1893, *Stiphrosoma*.

Gillette and Baker, Hemip. Colo., p. 45, 1895, *Stiphrosoma*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Stiphrosoma*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.

Localities: Colo., Utah, Calif.

1126. ***Strongylocoris robustus*** (Uhler)

Uhler, Hemip. Colo., p. 45, 1895, *Stiphrosoma*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Localities: Texas, Colo., N. Mex.

DIVISION *PILOPHORARIA* Reut.

- Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883; iv, p. 110, 1891.
 Reuter, Festschr. f. Palmen, i, pp. 17, 27, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 132, 1906, Tribe *Pilophorini*.
 Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Pilophorini*.
 Reuter, Neark. Caps., p. 73, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.
Camaronotidae Douglas and Scott, Brit. Hemip., pp. 30, 358, 1865.
 (Family.)

Genus *Heterocordylus* Fieb.Logotype *tumidicornis* Kirschb.

- Fieber, Wien. Ent. Monat., ii, p. 316, 1858.
 Fieber, Europ. Hemip., pp. 71, 290, 1861.
 Douglas and Scott, Brit. Hemip., p. 432, 1865.
 Thomson, Opusc. Ent., iv, p. 440, 1871.
 Reuter, Genera Cimic. Eur., p. 22, 1875.
 Reuter, Rev. Crit. Caps., i, p. 85; ii, p. 81, 1875.
 Reuter, Hemip. Gymn. Eur., iii, pp. 327, 544, pl. 1, fig. 5, 1884.
 Hübner, Synop. deut. Blindw., ii, pp. 105, 220, 1894?
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
Bothrocrauum Reuter, Pet. Nouv. Ent., ii, p. 54, 1876 (type *freyii* Reut.).

1127. *Heterocordylus malinus* Reut.

- Reuter, Neark. Caps., p. 71, 1909.
 Crosby, Can. Ent., xliii, p. 17, 1911 (life history).
 Knight, Jl. Econ. Ent., viii, p. 293, 1915 (oviposition).
 Parshley, Ent. News, xxvii, p. 104, 1916.
 Localities: N. H., N. Y., Ill.

Genus *Pilophorus* HahnHaplotype *bifasciatus* (Fabr.) = *clavatus* (Linn.)

- Hahn, Icones Cimic., i, p. 23, 1826.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
 Reuter, Genera Cimic. Eur., p. 22, 1875.
 Reuter, Rev. Crit. Caps., i, p. 85; ii, p. 84, 1875.
 Uhler, Ent. Am., iii, p. 29, 1887.
 Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.
 Atkinson, Cat. Capsidae, p. 112, 1889.
 Reuter, Hemip. Gymn. Eur., iv, pp. 112, 173, 1891.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 49, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
Camaronotus Fieber, Wien. Ent. Monat., ii, p. 322, 1858 (type *clavatus*
 Fieber, Europ. Hemip., pp. 74, 313, 1861. [Linn.).
 Douglas and Scott, Brit. Hemip., p. 358, 1865.
 Thomson, Opusc. Ent., iv, p. 441, 1871.

1128. *Pilophorus clavatus* (Linn.)

- Linnaeus, Syst. Nat., edn. 12, i, p. 729, 1767, *Cimex*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 48, 1835, *Capsus*.
 Zetterstedt, Ins. Lapp., column 278, 1840, *Capsus*.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
 Meyer-Duer, Synop. Schw. Rhyn., p. 87, 1843, *Capsus*.
 Sahlberg, Monog. Geoc. Fenn., p. 91, 1848, *Capsus*.

- Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 297, 1855, *Capsus* (*Leptomerochoris*).
 Fieber, Wien. Ent. Monat., ii, p. 322, 1858, *Camaronotus*.
 Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 742, 1858, *Capsus*.
 Flor, Rhyn. Livl., i, p. 569, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 314, 1861, *Camaronotus*.
 Douglas and Scott, Brit. Hemip., p. 360, 1865, *Camaronotus*.
 Thomson, Opusc. Ent., iv, p. 442, 1871, *Capsus*.
 Reuter, Rev. Crit. Caps., ii, p. 86, 1875.
 Reuter, Rev. Synon., p. 290, No. 266, 1888.
 Reuter, Hemip. Gymn. Eur., iv, p. 114, pl. 6, fig. 3, 1891.
 Saunders, Heter. Brit. Isds., p. 264, pl. 24, fig. 7, 1892.
 Horvath, Ann. Mus., Natl. Hung., vi, p. 5, 1908.
 Reuter, Neark. Caps., p. 74, 1909.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 50, 1912.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 †*bifasciatus* Schrank, Fauna Boica, p. 86, 1801, *Cimex*.
 Fallén, Monog. Cimic. Suec., p. 99, 1807, *Capsus*.
 Hahn, Icon. Cimic., i, fig. 22, 1826.
 Zetterstedt, Fauna Lapp., p. 498, 1828, *Capsus*.
 Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Harrington, Ottawa Nat., vi, p. 28, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
 Localities: Ont., Mass., N. Y., Minn.

1129. *Pilophorus cinnamopterus* (Kirsch.)

- Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 72, 116, 135, 1855, *Capsus*.
 Flor, Rhyn. Livl., i, p. 572, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 314, 1861, *Camaronotus*.
 Douglas and Scott, Brit. Hemip., p. 359, pl. 11, fig. 8, 1865, *Camaronotus*.
 Reuter, Rev. Synon., p. 290, No. 265, 1888.
 Reuter, Hemip. Gymn. Eur., iv, pp. 113, 175, pl. 6, fig. 2, 1891.
 Saunders, Heter. Brit. Isds., p. 264, pl. 24, fig. 7, 1892.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 50, 1912.
 †*bifasciatus* Fabricius, Syst. Ent., p. 725, 1775, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygacus*.
 Fabricius, Syst. Rhyn., p. 242, 1803, *Capsus*.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 230, 1804, *Capsus*.
 Zetterstedt, Fauna Lapp., p. 497, 1828, *Capsus*.
 Zetterstedt, Ins. Lapp., column 277, 1840, *Capsus*.
 Reuter, Rev. Crit. Caps., ii, p. 85, 1875.
 Reuter, Berl. Ent. Zeit., xxv, p. 177, 1881.
 Uhler, Check List, p. 20, 1886.
 Uhler, Ent. Am., iii, p. 30, 1887.
 Osborn, Ohio Nat., i, p. 12, 1900.
 †*confusus* Thomson, Opusc. Ent., iv, p. 442, 1871, part, *Capsus* (*Camaronotus*).
 Localities: Ohio. (Europe.)

1130. *Pilophorus schwarzi* Reut.

- Reuter, Neark. Caps., p. 74, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

†*confusus* Uhler, Check List, p. 20, 1886.

Uhler, Ent. Am., iii, p. 29, 1887.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Oshanian, Verz. Palae. Hemip., i, p. 809, note, 1909.

Localities: N. Y., D. C., Colo., Calif.

1131. *Pilophorus amoenus* Uhl.

Uhler, Ent. Am., iii, p. 30, 1887.

Van Duzee, Can. Ent., xxi, p. 4, 1889.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Slosson, Ent. News, viii, p. 240, 1897.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.

Moore, Can. Ent., xxxix, p. 163, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Parshley, Psyche, xxi, p. 142, 1914.

†*confusus* Van Duzee, Can. Ent., xix, p. 72, 1887.

Localities: Ont., Me., N. H., N. Y., Pa., N. J., D. C., Colo., N. Mex.

1132. *Pilophorus walshi* Uhl.

Uhler, Ent. Am., iii, p. 30, 1887.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: N. Y., N. J., Pa., Ohio, Ill., Colo.

[*Pilophorus laetus* Uhl. MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: N. J., D. C.

[*Pilophorus crassipes* Uhl. MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Moore, Can. Ent., xxxix, p. 163, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: N. J., Md., D. C., Ohio, Colo., Calif.

[*Pilophorus clavipes* Uhl. MS]

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.

Locality: N. Y.

[*Pilophorus fraternus* Uhl. MS]

Lintner, 2d Rept. N. Y. St. Ent., p. 186, 1885, *Camaronotus*.

Locality: N. Y.

Genus *Alepidia* Reut.

Orthotype *gracilis* Uhl.

Reuter, Neark. Caps., p. 75, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916

1133. *Alepidia gracilis* (Uhl.)

Uhler, Hemip. Colo., p. 42, 1895, *Pilophorus*.

Reuter, Neark. Caps., p. 75, 1909 (as type).

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: N. J., W. Va., Colo.

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Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.

Genus **Pamillia** Uhl.

Haplotype *behrensii* Uhl.

Uhler, Ent. Am., iii, p. 31, 1887.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 212, 1916.

1134. **Pamillia behrensii** Uhl.

Uhler, Ent. Am., iii, p. 31, 1887.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.

Locality: Calif.

Genus **Tiryus** Kirk.

Haplotype *punctulatus* (Reut.)

Kirkaldy, Wien. Ent. Zeit., xxii, p. 14, 1903 (n.n. for *Trichia* Reut.).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 133, 1906.

Reuter, Neark. Caps., p. 71, 1909.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 212, 1916.

||*Trichia* Reuter, Caps. Am. Bor., p. 81, 1876 (type *punctulatus*).

1135. **Tiryus punctulatus** (Reut.)

Reuter, Caps. Am. Bor., p. 82, 1876, *Trichia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.

Reuter, Neark. Caps., p. 71, 1909.

Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 174, 1907, *Ceratocapsus*.

Bergroth, Ann. Soc. Ent. Belg., liv, p. 68, 1910, *Ceratocapsus*.

Localities: Texas. (Mexico, West Indies.)

1136. **Tiryus elongatus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 257, 1894, *Melinna*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914, *Ceratocapsus*.

Localities: Fla., Colo., Texas, Ariz., Calif.

Genus **Ceratocapsus** Reut.

Logotype *lutescens* Reut.

Reuter, Caps. Am. Bor., p. 87, 1876.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 212, 1916.

||*Melinna* Uhler, Ent. Am., iii, p. 68, 1887 (type *modestus* Uhl.). [Uhl.).

Hypercides Kirkaldy, Wien. Ent. Zeit., xxii, p. 14, 1903 (n.n. for *Melinna*

1137. **Ceratocapsus lutescens** Reut.

Reuter, Caps. Am. Bor., p. 87, 1876.

Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Ceratocapsus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.

Localities: Fla., Kans., Texas.

1138. **Ceratocapsus modestus** (Uhl.)

Uhler, Ent. Am., iii, p. 69, 1887, *Melinna*.

Van Duzee, Can. Ent., xxi, p. 3, 1889, *Melinna*.

- Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892, *Melinna*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Melinna*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191, *Melinna*.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Melinna*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904, *Melinna*.
 Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Melinna*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Melinna*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna*.
 Moore, Can. Ent., xxxix, p. 163, 1907, *Melinna*.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

[*carbonarius* Fitch MS] Uhler, Ent. Am., iii, p. 69, 1887, *Phytocoris*.

Localities: Ont., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ill.,
 Kans., Ia., Colo., N. Mex.

1139. *Ceratocapsus pumilus* (Uhl.)

- Uhler, Ent. Am., iii, p. 69, 1887, *Melinna*.
 Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Melinna*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Ont., Mass., N. Y., Ohio, Md., D. C., Fla., Ill., Kans.,
 Colo., Texas.

1140. *Ceratocapsus setosus* Reut.

- Reuter, Nark. Caps., p. 70, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

[[*ptericidis* Uhler, Check List, p. 19, 1886, *Bryocoris*.

Smith, Cat. Ins. N. J., edn. 2, p. 131, 1900, *Bryocoris*.

Localities: N. J., Pa., D. C., Fla., Calif.

1141. *Ceratocapsus minutus* (Uhl.)

- Uhler, Proc. Zool. Soc. Lond. for 1893, p. 713, *Melinna*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna*.

Localities: Fla., Kans. (West Indies.)

1142. *Ceratocapsus fasciatus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 421, 1877, *Megacoelum*.
 Van Duzee, Can. Ent., xix, p. 71, 1887, *Megacoelum*.
 Uhler, Ent. Am., iii, p. 69, 1887, *Melinna*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Melinna*.
 Gillette and Baker, Hemip. Colo., p. 35, 1895, *Megacoelum*.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Melinna*.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
 Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

Localities: Ont., Mass., N. Y., N. J., Ia., Kans., Colo.

DIVISION LOPIDEARIA Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.
 ?*Lopariinac* Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Genus **Lomatopleura** Reut.Haplotype *caesar* Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 148, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1143. **Lomatopleura caesar** Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 250, 1894.

Gillette and Baker, Hemip. Colo., p. 31, 1895.

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.

Reuter, Neark. Caps., p. 72, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

Localities: N. Y., N. J., Pa., N. C., Ia., Colo.

1144. **Lomatopleura hesperia** Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 252, pl. 5, fig. 1.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

||*coccineus* Walker, Cat. Heter., vi, p. 93, 1873, *Capsus*.

Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 109, 1904.

Locality: Fla.

1145. **Lomatopleura instabile** Reut.

Reuter, Neark. Caps., p. 72, 1909.

a. var. **marginalis** Reut.

Reuter, Neark. Caps., p. 72, 1909.

Lomatopleura sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.

Localities: N. Y., Md., D. C., Fla.

Genus **Lopidea** Uhl.Haplotype *media* Say

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 405, 1878.

Distant, Biol. Centr. Am., Heter., i, p. 258, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1146. **Lopidea media** (Say)

Say, Heter. N. Harm., p. 22, 1832; Fitch reprint, p. 786; Compl. Writ., i, p.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872. [341, *Capsus*.

Uhler, Wheeler's Rept. 100th Mer., v, p. 838, 1875.

Reuter, Caps. Am. Bor., p. 66, 1876.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 414, 1877.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 406, 1878.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.

Van Duzee, Can. Ent., xix, p. 70, 1887.

Harrington, Ottawa Nat., vi, p. 27, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 249, 1894.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
 Gillette and Baker, Hemip. Colo., p. 30, 1895.
 Montgomery, Ent. News, xiii, p. 13, 1902.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
 Moore, Can. Ent., xxxix, p. 163, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
 Parshley, Psyche, xxi, p. 141, 1914.
 †*marginata* Slosson, Ent. News, xiii, p. 8, 1902.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
 Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Kans., Colo.

1147. *Lopidea confluenta* (Say)

- Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 788; Compl. Writ., i, p.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894. [343, *Capsus*.
 †*confluens* Reuter, Caps. Am. Bor., p. 66, 1876.
 Uhler, Check List, p. 18, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Slosson, Ent. News, v, p. 5, 1894.
 Gillette and Baker, Hemip. Colo., p. 30, 1895.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
 Van Duzee, Can. Ent., xlv, p. 320, 1912.
 Parshley, Psyche, xxi, p. 141, 1914.
 Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Ia., Kans., Colo.,
 Mont., Texas.

1148. *Lopidea floridana* (Walk.)

- Walker, Cat. Heter., vi, p. 97, 1873, *Capsus*.
 Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 108, 1904.
 Locality: Fla.

1149. *Lopidea robiniae* (Uhl.)

- Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861, *Capsus*.
 Van Duzee, Can. Ent., xix, p. 70, 1887 (as var.).
 Wirtner, Ann. Carn. Mus., iii, p. 199, 1904 (as var.).
 Leonard, Ent. News, xxvii, p. 51, 1916 (young).
 Localities: Ont., N. Y., Pa., D. C., N. C., Ohio.

1150. *Lopidea marginata* Uhl.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 249, 1894.
 Gillette and Baker, Hemip. Colo., p. 30, 1895.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
 [*obscura* Uhl. MS], Gillette and Baker, Hemip. Colo., p. 31, 1895.
 Localities: Colo., Ariz., Calif.

1151. *Lopidea nigridea* Uhl.

- Uhler, Hemip. Colo., p. 30, 1895.
 Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.

Localities: Ia., Colo., Calif.

1152. **Lopidea cuneata** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 79, 1910.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n.s. 113, p. 40, 1913.

(Probably a misidentification of *nigridea* Uhl.)

Locality: N. Y.

[**Lopidea strigata** Uhl. MS]

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.

Locality: Ia.

[**Lopidea fuscicornis** Uhl. MS]

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.

Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900.

Localities: N. J., Ia.

Genus **Hadronema** Uhl.

Haplotype *militaris* Uhl

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1153. **Hadronema militaris** Uhl.

*Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Oncotylus*.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872.

Uhler, Wheeler's Surv. 100th Mer., v, p. 838, pl. 42, fig. 12, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 415, 1877.

Distant, Biol. Centr. Am., Heter., i, p. 259, 1883.

Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.

Townsend, Can. Ent., xxiv, p. 193, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.

Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 251, 1894.

Gillette and Baker, Hemip. Colo., p. 31, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Reuter, Ann. k. k. Natl. Hofms. Wien., xxii, p. 172, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.

Localities: Mich., Ia., Kans., Colo., N. Mex., Calif.

1154. **Hadronema robusta** Uhl.

Riley, N. Am. Fauna, vii, p. 249, 1893 (a MS name).

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 250, 1894.

Gillette and Baker, Hemip. Colo., p. 32, 1895.

Van Duzee, Trans. San Diego Soc. Nat. Hist., iii, p. 28, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.

Localities: Colo., Calif.

1155. **Hadronema princeps** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 251, 1894.

Gillette and Baker, Hemip. Colo., p. 32, 1895.

Localities: Colo., Calif., Ore., Wash.

1156. *Hadronema picta* Uhl.

Uhler, Hemip. Colo., p. 31, 1895.

Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Localities: Dak., Colo., Nevada.

1157. *Hadronema festiva* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 80, 1910.

Locality: N. Mex.

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Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.

Litosomidae Douglas and Scott, Brit. Hemip., pp. 30, 334, 1865. (Family.)*Globicepididae* Douglas and Scott, Brit. Hemip., pp. 31, 362, 1865. (Family.)Genus *Cyllecoris* HahnLogotype *histrionicus* (Linn.)Hahn, Wanz. Ins., ii, p. 97, 1834 (*Cyllecoris* in index).

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.

Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 41, 1855 (subgenus of *Capsus*).

Dohrn, Cat. Hemip., p. 38, 1859.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906.

Van Duzee, Check List Hemip., p. 44, 1916.

†*Cyllocoris* Spinola, Essai sur les Hémip., p. 188, 1837 (1840).

Fieber, Wien. Ent. Monat., ii, p. 312, 1858.

Fieber, Europ. Hemip., pp. 69, 282, 1861.

Douglas and Scott, Brit. Hemip., p. 367, 1865.

Thomson, Opusc. Ent., iv, p. 436, 1871.

Walker, Cat. Heter., vi, p. 43, 1873.

Reuter, Genera Cimic. Eur., p. 28, 1875.

Reuter, Crit. Rev. Caps., i, p. 89; ii, p. 114, 1875.

Reuter, Ent. Mo. Mag., xv, p. 115, 1878.

Reuter, Hemip. Gymn. Eur., iii, pp. 401, 546, pl. 1, figs. 13, 14, 1883.

Puton, Cat. Hémip. Palae., edn. 3, p. 55, 1886.

Atkinson, Cat. Capsidae, p. 130, 1889.

Hüeber, Synop. deut. Blindw., ii, p. 107, 1894?

Oshanin, Verz. Palae. Hemip., i, p. 826, 1909.

Oshanin, Kat. Palae. Hemip., p. 72, 1912.

Kelidocoris Kolenati, Melet. Ent., ii, p. 102, 1845 (type *histrionicus*).‖*Perideris* Fieber, Verh. Zool.-Bot. Ges. Wien, xx, p. 249, 1870 (type *marginatus* Fieb.).*Dryophilocoris* Reuter, Genera Cimic. Eur., p. 30, 1875 (type *flavoquadrimaculatus* DeGeer).*Camarocyphus* Reuter, Of. Finska Soc. Forh., xxii, p. 21, 1880 (type *nigrogularis* Reut.).

Reuter in Zool. Jahrsb. for 1880, p. 140.

Mimopcrideris Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906 (n.n. for *Perideris* Fieb.).1158. *Cyllecoris histrionicus* (Linn.)Linnaeus, Syst. Nat., edn. 12, i, p. 728, 1767, *Cimex*.

Herrieh-Schaeffer, Nomen. Ent., i, p. 48, 1835.

Burmeister, Handb. d. Ent., ii, p. 267, 1835, *Phyllocoris*.Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Phyllocoris*.

- Meyer-Duer, Verz. Schw. Rhyn., p. 90, 1843, *Capsus*.
 Kolenati, Melet. Ent., ii, p. 103, 1845, *Polymcrus* (*Kelidocoris*).
 Sahlberg, Monog. Geoe. Fenn., p. 96, 1848, *Capsus*.
 Herrieh-Schaeffer, Wanz. Ins., Index, p. 36, 1853, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 43, 1855, *Capsus*.
 Flor, Rhyn. Livl., i, p. 475, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 282, 1861.
 Douglas and Scott, Brit. Hemip., p. 368, pl. 12, fig. 3, 1865.
 Thomson, Opusc. Ent., iv, p. 436, 1871, *Capsus* (*Orthotylus*).
 Reuter, Rev. Crit. Caps., ii, p. 115, 1875.
 Reuter, Hemip. Gymn. Eur., iii, pp. 406, 558, pl. 5, fig. 25, 1883.
 Reuter, Rev. Synon., p. 299, No. 279, 1888.
 Saunders, Heter. Brit. Isds., p. 277, pl. 25, fig. 8, 1892.
 Hübner, Synop. deut. Blindw., ii, p. 109, 1894?
 Banks, Cat. Neark. Hemip., p. 33, 1910.
 cantharinus (Müller), Zool. Danic. Prodr., p. 108, 1776, *Cimex*.
 cordiger (Goeze), Ent. Beytr., ii, p. 266, 1778, *Cimex*.
 agilis (Fabricius), Spec. Ins., p. 374, 1781, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 182, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyng., p. 247, 1803, *Capsus*.
 Wolff, Icon. Cimic., iv, p. 153, fig. 147, 1804, *Lygaeus*.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 233, 1804, *Capsus*.
 Fallén, Monog. Cimic. Suec., p. 100, 1807, *Capsus*.
 Fallén, Hemip. Suec., Cimic., p. 120, 1829, *Capsus*.
 Hahn, Wanz. Ins., ii, p. 98, 1834.
 Costa, Cimic. Neap. Cent., i, p. 50, 1838, *Phytocoris*.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
 cordatus (Geoffroy) in Fourcroy, Ent. Paris., p. 206, 1785, *Cimex*. [*Cimex*.
 leucozonius (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, p. 2162, 1788,
 vittatus (Gmelin) in Linnaeus, Syst. Nat., edn. 13, i, p. 2166, 1788, *Cimex*.
 Donovan, Nat. Hist. Brit. Ins., vii, p. 252, 1798, *Cimex*.
 †*fulvipes* (Schrank), Fauna Boica, ii, p. 93, 1801, *Cimex*.
 Localities: "E. St.," Banks. (Europe.)

Genus *Pseudoxenetes* Reut.

Logotype *regalis* (Uhler)

- Reuter, Neark. Caps., p. 66, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1159. *Pseudoxenetes regalis* (Uhler)

- Uhler, Trans. Md. Acad. Sci., i, p. 80, 1890, *Xenetus*.
 Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Stenidea*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Md., Pa., Ga., Fla., Mich., Ill.

1160. *Pseudoxenetes scutellatus* (Uhler)

- ?Riley, 5th Rept. Nox. Ins. Mo., p. 154, 1873, *Cyllocoris* (a MS name by Uhler).
 Uhler, Trans. Md. Acad. Sci., i, p. 81, 1890, *Xenetus*.
 Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Stenidea*.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Xenetus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910, *Xenetus*.

Localities: Ont., N. H., Mass., Conn., N. Y., Pa., Md., N. C., Va., Ill.

Genus **Globiceps** Lep. & Serv.Haplotype *capito* L. & S. = *sphegiformis* Rossi

- Le Peletier and Serville, Encyc. Méth., x, p. 326, 1825.
 Amyot and Serville, Hémip., p. 282, 1843.
 Fieber, Wien. Ent. Monat., ii, p. 313, 1858.
 Fieber, Europ. Hemip., pp. 69, 282, 1861.
 Douglas and Scott, Brit. Hemip., p. 362, 1865.
 Thomson, Opusc. Ent., iv, p. 436, 1871.
 Walker, Cat. Heter., vi, p. 43, 1873.
 Reuter, Genera Cimic. Eur., p. 28, 1875.
 Reuter, Crit. Rev. Caps., i, p. 89; ii, p. 116, 1875.
 Reuter, Ent. Mo. Mag., xv, p. 115, 1878.
 Reuter, Hemip. Gymn. Eur., iii, pp. 386, 545, 1883.
 Hübner, Synop. deut. Bildw., ii, pp. 106, 124, 1894?
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 51, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916. [genus].
 †*Kelidocoris* Reuter, Rev. Crit. Caps., i, p. 90; ii, p. 117, 1875 (as sub-

1161. **Globiceps flavomaculatus** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 182, 1794, *Lygaeus*.
 Fabricius, Syst. Rhyn., p. 247, 1803, *Capsus*.
 Fallén, Monog. Cimic. Suec., p. 100, 1807, *Capsus*.
 Fallén, Hemip. Suec. Cimic., p. 120, 1829, *Capsus*.
 Costa, Cimic. Reg. Neap., Cent., i, p. 50, 1838, *Phytocoris*.
 Zetterstedt, Ins. Lapp., column 278, 1840, *Capsus*.
 Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Capsus*.
 Meyer-Duer, Verz. Schw. Rhyn., p. 91, 1843.
 Kolenati, Melet. Ent., ii, p. 103, 1845, *Polymerus* (*Kelidocoris*).
 Sahlberg, Monog. Geoc. Fenn., p. 96, 1848, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 46, 1855, *Capsus* (*Cyllocoris*).
 Flor, Rhyn. Livl., i, p. 469, 1860, *Capsus*.
 Thomson, Opusc. Ent., iv, p. 436, 1871, *Capsus* (*Orthotylus*).
 Reuter, Rev. Crit. Caps., ii, p. 117, 1875 (subgenus *Kelidocoris*).
 Reuter, Hemip. Gymn. Eur., iii, pp. 395, 557, pl. 5, fig. 19, 1883.
 Reuter, Rev. Synon., p. 298, No. 278, 1888.
 Uhler, Check List, p. 20, 1886.
 Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Saunders, Heter. Brit. Isds., p. 280, pl. 26, fig. 1, 1892.
 Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
 selectus Fieber, Wien. Ent. Monat., ii, p. 333, 1858.
 Fieber, Europ. Hemip., p. 284, 1861.
 Douglas and Scott, Brit. Hemip., p. 363, 1865.
 Puton, Cat. Hémip. Palae., edn. 3, p. 55, 1886.
 †*distinguendus* Vollenhoven, Tijds. v. Ent., xvii, p. 166, 1878.
 Localities: Ont., Pa.(?) (Europe.)

1162. **Globiceps angustatus** Uhl.

- Uhler, Hemip. Colo., p. 42, 1895.
 Locality: Colo.

Genus **Paraproba** Dist.Logotype *fasciata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 270, 1884.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 138, 1906 (names *fasciata* type).

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 164, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1163. **Paraproba pendula** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.

Locality: Calif.

1164. **Paraproba hamata** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912, *Diaphnidia*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914, *Diaphnidia*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.

Locality: Calif.

Genus **Diaphnidia** Uhl.Logotype *debilis* Uhl.

Uhler, Hemip. Colo., p. 43, 1895.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906 (names *debilis* type).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1165. **Diaphnidia debilis** Uhl.

Uhler, Hemip. Colo., p. 43, 1895.

Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.

Gibson, Rept. Ent. Soc., Ont. for 1910, p. 125, 1911.

Localities: Ont., Mass., N. Y., D. C., Ohio, Colo., Calif.

1166. **Diaphnidia pellucida** Uhl.

Uhler, Hemip. Colo., p. 44, 1895.

Wirtner, Ann. Carn. Mus., ii, p. 200, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.

Moore, Can. Ent., xxxix, p. 162, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125, 1911.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912.

Parshley, Psyche, xxi, p. 142, 1914.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., D. C., Ohio, Colo., Calif.

1167. **Diaphnidia provancheri** (Burque)

Burque in Provancher, Pet. Faune Ent. Can., iii, p. 144, 1887, *Malacocoris*.

Van Duzee, Can. Ent., xlv, p. 322, 1912.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.

Localities: Quebec, N. H., N. Y., Calif.

1168. **Diaphnidia capitata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 490, 1912.

Localities: Ont., N. Y.

Genus **Hyalochloria** Reut.Logotype *caviceps* Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 18, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 218, 1916 (cites
[*caviceps* as type]).1168¼. **Hyalochloria caviceps** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 20, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 218, 1916.

Localities: Fla. (West Indies.)

1168½. **Hyalochloria bella** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 217, 1916.

Locality: Calif.

Genus **Reuteria** Put.Haplotype *marqueti* Put. = *irrorata* (Say)

Puton, Pet. Nouv. Ent., i, p. 519, 1875.

Reuter, Hemip. Gymn. Eur., iii, pp. 325, 544, 1883.

Hüeber, Synop. deut. Blindw., ii, pp. 105, 239, 1894?

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1169. **Reuteria irrorata** (Say)

Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 790; Comp. Writ., i, p. 346,

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878, *Malacocoris*. [*Capsus*.Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Malacocoris*.Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Malacocoris*.Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894, *Malacocoris*.Osborn, Ohio Nat., i, p. 12, 1900, *Malacocoris*.Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Malacocoris*.Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Malacocoris*.Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907, *Malacocoris*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 10, 1908.

Reuter, Neark. Caps., p. 70, 1909.

Oshanin, Verz. Palae. Hemip., i, p. 854, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 59, 1912.

marqueti Puton, Pet. Nouv. Ent., i, p. 519, 1875.

Reuter, Hemip. Gymn. Eur., iii, p. 325, 1883.

Localities: Ont., N. Y., N. J., Pa., Md., D. C., Ohio, Kans., Ia.
(Mexico, Europe.)Genus **Orthotylus** Fieb.Logotype *nassatus* (Fabr.)

Fieber, Wien. Ent. Monat., ii, p. 315, 1858.

Fieber, Europ. Hemip., pp. 71, 288, 1861.

Thomson, Opusc. Ent., iv, pp. 434, 438, 1871.

Reuter, Genera Cimic. Eur., p. 32, 1875.

Reuter, Rev. Crit. Caps., i, p. 91; ii, p. 129, 1875.

Reuter, Hemip. Gymn. Eur., iii, pp. 342, 545, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 138, 1887.

Hüeber, Synop. deut. Blindw., ii, pp. 106, 153, 1894?

- Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *nassatus* (Fabr.)
Oshanin, Verz. Palae. Hemip., i, p. 837, 1909. [type).
Oshanin, Kat. Palae. Hemip., p. 73, 1912.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 60, 1912.
Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 213, 1916.
Van Duzee, Check List Hemip., p. 44, 1916. [species).
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 87, 1916 (monograph N. Am.
?Tichorhinus Fieber, Wien. Ent. Monat., ii, p. 314, 1858 (type *ericctorum*
[Fall.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *ericctorum*
Kirkaldy, Proc. Hawaii. Ent. Soc., i, p. 197, 1908. [Fall. type).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.
Pachylops Fieber, Wien. Ent. Monat., ii, p. 314, 1858 (haplotype *chlorop-*
Fieber, Europ. Hemip., pp. 70, 285, 286, 1861. [terus Kirsch.).
Litocoris Fieber, Europ. Hemip., pp. 70, 287, 2861 (n.n. for *Tichorhinus*
[Fieb.).
Litosoma Douglas and Scott, Brit. Hemip., p. 334, 1865 (type *nassatus*
[Fall. = *marginalis* Reut.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *marginalis*
[Reut. type).
|| *Allocatus* Puton, Ann. Soc. Ent. Fr., ser. 5, iv, p. 218, 1874 (haplotype
[rubidus Put.).
Melanotrichus Reuter, Genera Cimic. Eur., p. 35, 1875 (logotype *flavo-*
Reuter, Rev. Crit. Caps., ii, p. 135, 1875. [sparsus Sahlb.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *flavosparsus*
[Sahlb. type).
Halocapsus Puton, Ann. Soc. Ent. Fr., ser. 5, viii, Bul., p. xxxiii, 1878
[(n.n. for *Allocatus* Put.).

Subgenus **Orthotylus** Reut.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 88 (group I), p. 92, 1916.
1169¼. **Orthotylus insignis** Van D.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 92, 1916.
Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

1169½. **Orthotylus tibialis** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 93, 1916.
Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

1169¾. **Orthotylus ferox** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 94, 1916.
Locality: Calif.

1170. **Orthotylus viridicatus** Uhl.

- Uhler, Hemip. Colo., p. 48, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 95, 1916.
Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: Colo., Idaho, Calif.

1171. *Orthotylus coagulatus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 417, 1877, *Macrocoleus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 150, 1887, *Macrocoleus*.
 Van Duzee, Can. Ent., xix, p. 72, 1887, *Macrocoleus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Macrocoleus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Macrocoleus*.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894, *Macrocoleus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Macrocoleus*.
 Slosson, Ent. News, vi, p. 321, 1895, *Macrocoleus*.
 Gillette and Baker, Hemip. Colo., p. 50, 1895, *Macrocoleus*.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Macrocoleus*.
 Snow, Univ. Kans. Sci. Bul., ii, p. 384, 1904, *Macrocoleus*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906, *Macrocoleus*.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Megrocoleus*.
 Reuter, Neark. Caps., p. 68, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Megalocoleus*.
 Van Duzee, Can. Ent., xlv, p. 322, 1912, *Macrocoleus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
 Parshley, Psyche, xxi, p. 142, 1914, *Megalocoleus*.
 Parshley, Psyche, xxii, p. 23, 1915.
 Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 96, 1916.

biguttatus Reuter, Neark. Caps., p. 69, 1909.

Localities: Colo., Ariz., Calif.

[Eastern references probably pertain to the next species.]

1172. *Orthotylus flavosparsus* (Sahlbg.)

- Sahlberg, Acta Soc. Sci. Fenn., i, p. 411, 1842, *Phytocoris*.
 Sahlberg, Monog. Geoc. Fenn., p. 103, 1848, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 89, 1853, *Capsus*.
 Flor, Rhyn. Livl., i, p. 582, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 288, 1861.
 Douglas and Scott, Brit. Hemip., p. 341, 1865, *Litosoma*.
 Reuter, Genera Cimic. Eur., p. 35, 1875.
 Reuter, Rev. Crit. Caps., ii, p. 135, 1875.
 Reuter, Hemip. Gymn. Eur., iii, pp. 360, 552, 1883.
 Saunders, Heter. Brit. Isds., pp. 285, 591, pl. 27, fig. 1, 1892.
 Hüber, Synop. deut. Blindw., ii, pp. 160, 189, 1894?
 Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 Reuter, Neark. Caps., p. 68, 1909.
 Smith, Cat. Ins. N. J., edn. 3, pl. 161, 1910.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 Parshley, Psyche, xxi, p. 142, 1914.
 Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 97, 1916.
viridipennis Dahlbom, Vet. Akad. Handl. for 1850, p. 212, *Phytocoris*.
†*prasina* Douglas and Scott, Brit. Hemip., p. 344, 1865, *Litosoma*.
unicolor Provancher, Nat. Can., iv, p. 105, 1872, *Lygus*.
†*scriccus* Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887, *Pocilloscytus*.
†*pulchellus* Provancher, Pet. Faune Ent. Can., iii, p. 148, 1887, *Oncotylus*.
†*chlorionis* Horvath, Ann. Mus. Natl. Hung., vi, pp. 5, 565, 1908.

Localities: Quebec, Ont., Me., N. Y., N. J., D. C., Va., Ohio, Kans. (Europe.)

1173. **Orthotylus chlorionis** (Say)

- Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 791; Compl. Writ., i.
 Uhler, Check List, p. 18, 1886, *Lygus?* [p. 346, *Capsus*.]
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Reuter, Nark. Caps., p. 69, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
 Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 99, 1916.
 Localities: Quebec, Ont., N. Y., D. C., Calif.

1173 $\frac{1}{4}$. **Orthotylus fraternus** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 99, 1916.
 $\ddagger$ *inconspicuous* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
 Locality: Calif.

1173 $\frac{1}{2}$. **Orthotylus uniformis** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 100, 1916.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
 Localities: N. Y., Calif.

1174. **Orthotylus translucens** Tuck.

- Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 101, 1916.
 Localities: N. Y., Colo.

1175. **Orthotylus diaphanus** (Kirsch.)

- Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 78, 145, 1855, *Capsus*.
 Flör, Rhyn. Livl., i, p. 613, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 290, 1861.
 Reuter, Hemip. Gymn. Eur., iii, pp. 358, 551, pl. 5, fig. 15, 1883.
 Saunders, Heter. Brit. Isds., pp. 285, 287, 1892.
 Hüber, Synop. deut. Blindw., ii, pp. 159, 180, 1894?
 Heidemann, in Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 $\ddagger$ *viridinervis* Thomson, Opusc. Ent., iv, p. 456, 1871.
 Localities: Kans.(?). (Europe.)

1175 $\frac{1}{16}$. **Orthotylus senectus** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 102, 1916.
 Locality: Colo.

1175 $\frac{1}{8}$. **Orthotylus viridis** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 103, 1916.
 Localities: N. Y., N. C.

1175 $\frac{1}{4}$. **Orthotylus nigrinasi** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 104, 1916.
 Locality: Texas.

1175 $\frac{3}{8}$. **Orthotylus ovatus** Van D.

- Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 105, 1916.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
 Locality: Calif.

1175½. *Orthotylus catulus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 106, 1916.

Locality: N. Y.

[*Orthotylus discoidalis* Uhl. MS]

Riley, 5th Rept. Nox. Ins. Mo., p. 154, 1873.

Locality: Mo.

Subgenus *Diommatus* Uhl.Haplotype *congrax* Uhl. = *dorsalis* Prov.

Uhler, Ent. Am., iii, p. 32, 1887 (as genus).

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 89 (group III), p. 107, 1916.

1175¾. *Orthotylus languidus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 107, 1916.

Locality: Calif.

1175¾. *Orthotylus formosus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 108, 1916.

Locality: Calif.

1175¾. *Orthotylus modestus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 109, 1916.

Localities: N. Y., Pa.

1176. *Orthotylus dorsalis* (Prov.)Provancher, Nat. Can., iv, p. 104, 1872, *Lygus*.

Provancher, Pet. Faune Ent. Can., iii, p. 138, 1887.

Van Duzee, Can. Ent., xlv, p. 322, 1912.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 110, 1916.

congrax (Uhler), Ent. Am., iii, p. 33, 1887, *Diommatus*.Van Duzee, Can. Ent., xxi, p. 3, 1889, *Diommatus*.Uhler, Proc. Ent. Soc. Wash., ii, p. 273, 1893, *Diommatus*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Diommatus*.Gillette and Baker, Hemip. Colo., p. 45, 1895, *Diommatus*.Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Diommatus*.Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Diommatus*.Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Diommatus*.Montgomery, Ent. News, xiii, p. 13, 1902, *Diommatus*.

Reuter, Neark. Caps., p. 67, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Diommatus*.

Parshley, Psyche, xxi, p. 142, 1914.

Localities: Quebec, Ont., Me., N. Y., N. J., Utah, Colo., Kans.

1177. *Orthotylus marginatus* (Uhl.)Uhler, Hemip. Colo., p. 43, 1895, *Cyrtorrhinus*.Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Cyrtorrhinus*.Van Duzee, Can. Ent., xl, p. 113, 1908, *Cyrtorrhinus*.Reuter, Neark. Caps., p. 67, 1909, *Cyrtorrhinus*?Parshley, Psyche, xxi, p. 142, 1914, *Cyrtorrhinus*.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 112, 1916.

Localities: Quebec, Ont., Me., N. Y., Colo.

1177¹/₄. *Orthotylus molliculus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 113, 1916.

Locality: Calif.

1177¹/₂. *Orthotylus affinis* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 114, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. But., i, p. 241, 1916.

Locality: Calif.

1178. *Orthotylus submarginatus* (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 788; Compl. Writ., i, p.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 123, 1916. [344, *Capsus*.

Localities: R. 1., N. Y., Ind., Mo.

1178¹/₄. *Orthotylus candidatus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 124, 1916.

Locality: N. H.

1178¹/₂. *Orthotylus necopinus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 125, 1916.

Localities: N. H., N. Y.

1178³/₄. *Orthotylus fumidus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 127, 1916.

Locality: Colo.

1179. *Orthotylus angulatus* (Uhl.)

Uhler, Hemip. Colo., p. 44, 1895, *Diommatus*.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 115, 1916.

Locality: Colo.

a. var. brunneus Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 116, 1916.

Locality: Calif.

1179¹/₄. *Orthotylus cuneatus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 117, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.

Locality: Calif.

1179¹/₄. *Orthotylus pullatus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 118, 1916.

Locality: Calif.

1179³/₈. *Orthotylus cruciatus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 119, 1916.

Localities: Quebec, Me., Vt., Mass.

1179¹/₂. *Orthotylus lateralis* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 120, 1916.

Locality: Colo.

1179⁵/₈. *Orthotylus knighti* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 121, 1916.

Locality: N. Y.

1179¾. *Orthotylus ornatus* Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 122, 1916.

Locality: N. Y.

1180. *Orthotylus inconspicuus* (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 376, 1893, *Asciodema*.

Reuter, Neark. Caps., p. 69, 1909.

Locality: Utah.

[*Orthotylus alternatus* Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.

Heidemmann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

Localities: Ont., D. C.

[*Orthotylus delicatus* Uhl. MS]

Heidemmann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.

Locality: D. C.

Genus *Ilnacora* Reut.Haplotype *divisa* Reut.

Reuter, Caps. Am. Bor., p. 85, 1876.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

Subgenus *Ilnacora* Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.

Sthenarops Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 418, 1877.

Provancher, Pet. Faune Ent. Can., iii, p. 133, 1887.

1181. *Ilnacora divisa* Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.

Gillette and Baker, Hemip. Colo., p. 40, 1895.

Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

Localities: N. J., Kans., Texas.

1182. *Ilnacora chloris* (Uhl.)Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 419, 1877, *Sthenarops*.Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Sthenarops*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894.

Gillette and Baker, Hemip. Colo., p. 40, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904, *Sthenarops*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Localities: Kans., Colo., N. Mex. (Mexico.)

1183. *Ilnacora viridis* Uhl.

Uhler, Hemip. Colo., p. 41, 1895.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.

Localities: Colo., N. Mex.

Subgenus *Corinala* Reut.Haplotype *stalii* Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.

1184. *Ilnacora stalii* Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.

Van Duzee, Can. Ent., xix, p. 72, 1887.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Gillette and Baker, Hemip. Colo., p. 40, 1895.

Seiss, Ent. News, viii, p. 67, 1897.

Osborn, Ohio Nat., i, p. 12, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.

Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

†*psalliodes* Provancher, Pet. Faune Ent. Can., iii, p. 146, 1877, *Parthenicus*.

Localities: N. Y., N. J., Pa., Ohio, Kans., Colo., Texas.

1185. *Ilnacora malina* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 419, 1877, *Sthenarops*.

Distant, Biol. Centr. Am., Heter., i, p. 431, 1893, *Sthenarops*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Sthenarops*.

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Sthenarops*.

Slosson, Ent. News, xi, p. 323, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Sthenarops*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.

Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 174, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.

[*Calocoris*?

inustus Distant, Biol. Centr. Am., Heter., i, p. 267, pl. 23, fig. 17, 1884.

†*basalis* Provancher, Pet. Faune Ent. Can., iii, p. 128, 1887, *Pocilloscytus*.

Localities: N. H., Mass., N. Y., N. J., Pa., Ia., Kans.

Genus *Semium* Reut.Haplotype *hirtum* Reut.

Reuter, Caps. Am. Bor., p. 80, 1876.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1186. *Semium hirtum* Reut.

Reuter, Caps. Am. Bor., p. 80, 1876.

Reuter, Neark. Caps., p. 73, 1909.

[*Eccritotarsus*.

elegans Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885 (a MS name),

Uhler, Ent. Am., iii, p. 149, 1887, *Eccritotarsus* (described).

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Eccritotarsus*.

Osborn, Ohio Nat., i, p. 12, 1900, *Eccritotarsus*.

Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Eccritotarsus*.

Localities: N. Y., Pa., D. C., Ohio, Ill., Ia., Kans., Texas, Calif.

Genus *Mecomma* Fieb.Haplotype *ambulans* (Fall.)

Fieber, Wien. Ent. Monat., ii, p. 313, 1858.

Fieber, Europ. Hemip., pp. 69, 284, 1861.

Reuter, Hemip. Gymn. Eur., iii, pp. 383, 545, 1883.

Häuber, Synop. deut. Blindw., ii, pp. 106, 143, 1894?

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 834, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

||*Sphyracephalus* Douglas and Scott, Brit. Hemip., p. 348, 1865 (haplotype
[*ambulans* Fall.]).

Sphyrrops Douglas and Scott, Ent. Mo. Mag., iii, p. 16, 1866 (n.n. for
[*Sphyracephalus* D. & S.]).

†*Chlamydatius* Reuter, Genera Cimic. Eur., p. 30, 1875.

Reuter, Rev. Crit. Caps., ii, pp. 90, 124, 1875.

1187. *Mecomma ambulans* (Fall.)

Fallén, Monog. Cimic. Suec., p. 104, 1807, *Capsus*.

Fallén, Hemip. Suec., Cimic., p. 126, 1829, *Capsus*.

Herrich-Schaeffer, Wanz. Ins., iii, p. 109, figs. 335-337, 1835, *Capsus*.

Sahlberg, Monog. Geoc. Fenn., p. 94, 1848, *Capsus*.

Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 76, 114, 1855, *Capsus*.

Flor, Rhyn. Livl., i, p. 577, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 284, 1861.

Douglas and Scott, Brit. Hemip., p. 349, 1865, *Sphyracephalus*.

Reuter, Rev. Crit. Caps., ii, p. 124, 1875, *Chlamydatius*.

Reuter, Hemip. Gymn. Eur., iii, pp. 384, 555, pl. 2, figs. 1, 2, 1883, *Chlamy-*

Uhler, Check List, p. 20, 1886. [*datius*.]

Saunders, Heter. Brit. Isds., p. 280, pl. 26, figs. 3, 4, 1892.

Hüeber, Synop. deut. Blindw., ii, p. 144, 1894?

ochripes Curtis, Brit. Ent., xv, pl. 693, 1838, *Chlamydatius*.

nigritula Zetterstedt, Ins. Lapp., column 279, 1840.

dubia Zetterstedt, Ins. Lapp., column 279, 1840 (immature).

Localities: "Brit. Am." (Europe.)

1188. *Mecomma gilvipes* (Stål)

Stål, Stet. Ent. Zeit., xix, p. 187, 1858, *Leptomerocoris gilvipes*.

Reuter, Hemip. Gymn. Eur., iii, pp. 386, 555, pl. 2, fig. 6, 1883.

Uhler, Check List, p. 20, 1886.

Van Duzee, Can. Ent., xxi, p. 4, 1889.

Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.

Oshanin, Verz. Palae. Hemip., p. 835, note, 1909.

Localities: Ont., N. H., N. Y., Wash., Alaska.

Genus *Orthocephalus* Fieb.

Logotype *brevis* (Panz.)

Fieber, Wien. Ent. Monat., ii, p. 316, 1858.

Fieber, Europ. Hemip., pp. 71, 291, 1861.

Douglas and Scott, Brit. Hemip., p. 429, 1865.

Thomson, Opusc. Ent., iv, p. 432, 1871.

Reuter, Genera Cimic. Eur., p. 24, 1875.

Reuter, Rev. Crit. Caps., i, p. 86; ii, p. 93, 1875.

?Provancher, Pet. Faune Ent. Can., iii, p. 136, 1887.

Reuter, Hemip. Gymn. Eur., iv, pp. 43, 158, 1891.

Hüeber, Synop. deut. Blindw., ii, pp. 3, 15, 1894?

1189. *Orthocephalus saltator* (Hahn)

Hahn, Wanz. Ins., iii, p. 11, fig. 236, 1835, *Capsus*.

Fieber, Europ. Hemip., p. 293, 1861.

Douglas and Scott, Brit. Hemip., p. 431, pl. 14, fig. 2, 1865.

Thomson, Opusc. Ent., iv, p. 432, 1871.

Reuter, Rev. Crit. Caps., ii, p. 95, 1875.

Uhler, Check List, p. 20, 1886.

Reuter, Hemip. Gymn. Europ., iv, pp. 51, 165, pl. 1, fig. 10; pl. 4, fig. 1, 1891.

Saunders, Heter. Brit. Isds., p. 270, pl. 25, fig. 2, 1892.

Van Duzee, Can. Ent., xlv, p. 322, 1912.

mutabilis var. Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus*.

mutabilis Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Halticus*.

Sahlberg, Monog. Geoc. Fenn., p. 120, 1848, *Capsus*.

Flor, Rhyn. Livl., i, p. 567, 1860, *Capsus*.

hirtus Curtis, Brit. Ent., xv, pl. 693, 1838, *Capsus*. [*Pachytoma*.

major Costa, Cimic. Reg. Neap., Cent. iii, p. 278, pl. 3, figs. 5, 6, 1852,

infuscatus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 190, 1869, *Globiceps*.

Localities: Alaska. (Europe, Siberia.)

Orthocephalus sp. nov. Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893.

Locality: Utah.

Genus *Pseudopsallus* Van D.

Orthotype *angularis* Uhl.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 213, 224, 1916.

1190. *Pseudopsallus angularis* (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 272, 1894, *Macrotylus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914, *Macrotylus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 224, 1916.

Locality: Calif.

1191. *Pseudopsallus verticalis* (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 272, 1894, *Macrotylus*.

Gillette and Baker, Hemip. Colo., p. 51, 1895, *Macrotylus*. [*Macrotylus*.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n.s. 113, p. 41, 1913,

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Plagiognathus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 225, 1916.

Localities: Colo., N. Mex., Calif.

Genus *Labopidea* Uhl.

Haplotype *chloriza* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 415, 1877. [(monograph).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 214, 218, 1916

1192. *Labopidea nigripes* (Reut.)

Reuter, Neark. Caps., p. 68, 1909, *Orthotylus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 219, 242, 1916.

Localities: Nevada, Calif., Br. Col.

1193. **Labopidea simplex** (Uhl.)

- Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 417, 1872, *Tinicephalus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 418, 1877, *Tini-*
Gillette and Baker, Hemip. Colo., p. 42, 1895, Tinicephalus. [cephalus.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 220, 1916.
 Van Duzee, Psyche, xxiii, p. 141, 1916.
grisea Reuter, Neark. Caps., p. 73, 1909, *Hyoidea*.
 Localities: Wyo., Colo., N. Mex., Calif.

1194. **Labopidea chloriza** Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 416, 1877.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894.
 Gillette and Baker, Hemip. Colo., p. 46, 1895.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 221, 1916 (notice).
 Localities: Colo., Utah.

1195. **Labopidea sericata** (Uhl.)

- Uhler, Hemip. Colo., p. 49, 1895, *Oncotylus*.
 Reuter, Neark. Caps., p. 69, 1909, *Orthotylus*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 220, 1916.
 Localities: Colo., Nev.

1195½. **Labopidea atriseta** Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 221, 1916.
 Locality: Calif.

Genus **Macrotyloides** Van D.Orthotype *vestitus* Uhl.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 214, 222, 1916.

1196. **Macrotyloides vestitus** (Uhl.)

- Uhler, Trans. Md. Acad. Sci., i, p. 88, 1890, *Macrotylus*.
 ?Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Macrotylus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Macrotylus*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 222, 1916.
 Localities: Calif. (Pa.?)

1196½. **Macrotyloides apicalis** Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 223, 1916.
 Locality: Calif.

Genus **Argyrocoris** Van D.Haplotype *scurrilis* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 478, 1912.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

1197. **Argyrocoris scurrilis** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 479, 1912.
 Locality: Ariz.

1197½. **Argyrocoris femoratus** Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 225, 1916.
 Locality: Calif.

Genus **Parthenicus** Reut.Haplotype *psalliodes* Reut.

Reuter, Caps. Am. Bor., p. 84, 1876.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1198. **Parthenicus psalliodes** Reut.

Reuter, Caps. Am. Bor., p. 85, 1876.

Locality: Texas.

1199. **Parthenicus vaccini** (Van D.)Van Duzee, Pomona Jl. Ent. Zool., vii, p. 117, 1915, *Psallus*.

Van Duzee, Check List Hemip., p. 45, 1916.

Locality: Mass.

1199½. **Parthenicus picicollis** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 226, 1916.

Locality: Calif.

Subfamily **PHYLINAE** Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 110, 111, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.

Van Duzee, Check List Hemip., p. 45, 1916.

Plagiognathinae Oshanin, Kat. Palae. Hemip., p. 77, 1912.TRIBE **PHYLINI** (Reut.)Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 112, 1910, Division *Phylaria*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 202, 214, 1916.

[Tribe *Boopidocorini* Reut. (Kirk.) is palaearctic.]DIVISION **ONCOTYLARIA** (D. & S.)Douglas and Scott, Brit. Hemip., pp. 32, 384, 1865, Fam. *Oncotylidae*.

Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 138, 1875.

Reuter, Hemip. Gymn. Eur., ii, p. 193, 1879; iii, p. 568, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 100, 1886, *Oncotylides*.

Reuter, Festsch. f. Palmén, i, pp. 16, 27, 1905.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 125, 1906, Tribe *Oncotylini*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

Xenocorini Kirkaldy, Can. Ent., xxxviii, p. 370, 1906. (Tribe.)Genus **Macrotylus** Fieb.Haplotype *luniger* Fieb.

Fieber, Wien. Ent. Monat., ii, p. 325, 1858.

Fieber, Europ. Hemip., pp. 76, 317, 1861.

Thomson, Opusc. Ent., iv, p. 452, 1871.

Reuter, Genera Cimic. Eur., p. 43, 1875.

Reuter, Rev. Crit. Caps., i, p. 96, 1875.

Reuter, Hemip. Gymn. Eur., ii, p. 194, 1879; iii, p. 529, 1883.

Hüeber, Synop. deut. Blindw., ii, p. 243, 1894?

Oshanin, Verz. Palae. Hemip., i, p. 882, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 5, 1916 (monograph).

Mermimcrus Sahlberg, Not. Soc. Fauna Flora Fenn., xi, p. 293, 1870 (type
[*cruciatus* Sahlbg.]).

Reuter, Genera Cimic. Eur., p. 43, 1875 (as subgenus).

1200. *Macrotylus 6-guttatus* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 150, 1887, *Amblytylus*.

Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.

Van Duzee, Can. Ent., xlv, p. 322, 1912.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 6, 1916.

Localities: Quebec, N. Y.

1201. *Macrotylus amoenus* Reut.

Reuter, Neark. Caps., p. 75, 1909.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 6, 1916.

Macrotylus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, No. 156, 1909.

Localities: Conn., Pa., Fla.

1201¼. *Macrotylus multipunctatus* Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 7, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.

Locality: Calif.

1201½. *Macrotylus dorsalis* Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 7, 1916.

Locality: Calif.

1201¾. *Macrotylus essigi* Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 8, 1916.

Locality: Calif.

1202. *Macrotylus lineolatus* Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 270, 1894.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 9, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.

Locality: Calif.

1203. *Macrotylus herrichi* (Reut.)

Reuter, Not. Säll. Fauna Flora Fenn. Forh., xiv, p. 24, 1873, *Hoplomachus*.

Reuter, Genera Cimic. Eur., p. 39, 1875, *Hoplomachus*.

Reuter, Hemip. Gymn. Eur., ii, p. 200, 1879; iii, p. 534, 1883.

||*bilineatus* Herrich-Schaeffer, Wanz. Ins., iii, p. 70, fig. 285, 1836, *Capsus*.

Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 82, No. 105, 1855, *Capsus*.

Fieber, Europ. Hemip., p. 316, 1861, *Hoplomachus*.

Uhler, Check List, p. 20, 1886, *Hoplomachus*.

Localities: "Brit. Am." (Europe.)

1203½. *Macrotylus infuscatus* Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 10, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.

Locality: Calif.

1204. *Macrotylus tristis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 87, 1890.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 11, 1916.

Localities: Colo., Calif.

1205. *Macrotylus regalis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 86, 1890.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 11, 1916.

Locality: Calif.

[*Macrotylus guttatus* Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.

[May be *G-guttatus* Prov.]

Locality: Ont.

[*Macrotylus desiccatus* Uhl. MS]

Townsend, Can. Ent., xxiv, p. 194, 1892.

Locality: N. Mex.

Genus *Hoplomachidea* Reut.Orthotype *consors* Uhl.

Reuter, Neark. Caps., p. 75, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

1206. *Hoplomachidea consors* (Uhl.)Uhler, N. Am. Fauna, vii, p. 264, 1893, *Haplomachus*.

Reuter, Neark. Caps., p. 75, 1909 (as type).

Locality: Calif.

Genus *Lopus* HahnLogotype *chrysanthemi* Hahn = *decolor* Fall.

Hahn, Wanz. Ins., i, p. 143, 1832 (refers to figures on pl. 1).

Reuter, Wien. Ent. Zeit., xxv, p. 216, 1906.

Kirkaldy, Can. Ent., xxxviii, p. 376, 1906.

Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 146, 1910.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 41, 1912.

Onychumenus Reuter, Hemip. Gymn. Eur., ii, p. 286, 1879 (type *decolor*

Reuter, Hemip. Gymn. Eur., iii, p. 529, 1883. [Fall.).

Hüeber, Synop. deut. Blindw., ii, pp. 243, 247, 1894?

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906.

Oshanin, Verz. Palae. Hemip., p. 858, 1909.

Oshanin, Kat. Palae. Hemip., p. 77, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

Van Duzee, Check List Hemip., p. 46, 1916.

1207. *Lopus decolor* (Fall.)Fallén, Monog. Cimic. Suec., p. 102, 1807, *Capsus*.Fallén, Hemip. Suec., Cimic., p. 123, 1829, *Capsus*.Meyer-Duer, Synop. Schw. Rhyn., p. 86, 1843, *Capsus*.Sahlberg, Monog. Geoc. Fenn., p. 95, 1848, *Capsus*.Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 77, No. 91, 1855, *Capsus*.Flor, Rhyn. Livl., i, p. 555, 1860, *Capsus*.Fieber, Europ. Hemip., p. 298, 1861, *Oncotylus*.Douglas and Scott, Brit. Hemip., p. 393, pl. 13, fig. 2, 1865, *Oncotylus*.Thomson, Opusc. Ent., iv, p. 452, 1871, *Capsus* (*Phylus*).

- Reuter, Genera Cimic. Eur., p. 40, 1875, *Oncotylus*.
 Reuter, Rev. Crit. Caps., ii, p. 142, 1875, *Oncotylus*.
 Reuter, Hemip. Gymn. Eur., ii, p. 287, 1879, *Onychumenus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 148, 1887, *Oncotylus*.
 Saunders, Heter. Brit. Isds., p. 297, pl. 27, fig. 10, 1892, *Onychumenus*.
 Montgomery, Ent. News, xiii, p. 13, 1902, *Oncotylus*.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Onychumenus*.
 Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
 Parshley, Psyche, xxi, p. 142, 1914.
chrysanthemi Hahn, Wanz. Ins., i, p. 10, fig. 4, 1831.
*palliatu*s (Perris), Ann. Soc. Linn., Lyons, iv, p. 166, 1857, *Capsus*.
 Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., D. C., Calif.

1208. *Oncotylus punctipes* Reut.

- Saunders, Ent. Mo. Mag., x, p. 91, 1873 (without name).
 Reuter, Genera Cimic. Eur., p. 42, 1875 (characterized).
 Reuter, Rev. Crit. Caps., ii, p. 144, 1875 (described).
 Reuter, Hemip. Gymn. Eur., ii, p. 279, pl. 5, fig. 4, 1879; iii, p. 541, 1883.
 Provancher, Pet. Faune Ent. Can., iii, p. 149, 1887.
 Hüeber, Synop. deut. Blindw., ii, pp. 254, 258, 1894?
 Van Duzee, Can. Ent., xlv, p. 322, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
*†tanacet*i (Herrich-Schaeffer), Wanz. Ins., iii, p. 85, fig. 309, 1836, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 80, No. 102, 1855, *Capsus*.
 Fieber, Europ. Hemip., p. 299, 1861. [(*Leptomicrocoris*.)]
 Localities: Ont., Me., Calif.

1209. *Oncotylus puberus* Uhl.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 270, 1894.
 Locality: Calif.

1210. *Oncotylus guttulatus* Uhl.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 269, 1894.
 Gillette and Baker, Hemip. Colo., p. 48, 1895.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
 Localities: Colo., Ariz., Calif.

1211. *Oncotylus repertus* Uhl.

- Uhler, Hemip. Colo., p. 49, 1895.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
 Localities: Colo., Calif.

1212. *Oncotylus longipennis* Uhl.

- Uhler, Hemip. Colo., p. 48, 1895.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.
 Localities: Colo., N. Mex.

DIVISION PHYLARIA (D. & S.)

- Douglas and Scott, Brit. Hemip., pp. 39, 346, 1865, Family *Phylidae*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 112, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.
Astemmides Amyot and Serville, Hémip., pp. xxxix, 283, 1843 (an un-
 [natural group founded on the want of a membrane].
Psallidae Douglas and Scott, Brit. Hemip., pp. 32, 400, 1865. (Family.)
Harpoceridae Douglas and Scott, Brit. Hemip., pp. 33, 468, 1865. (Family.)
Plagiognatharia Reuter, Genera Cimic. Eur., p. 7, 1875.
 Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 148, 1875.
 Reuter, Hemip. Gymn. Eur., i, p. 15, 1878; iii, p. 568, 1883.
 Provancher, Pet. Faune Ent. Can., iii, p. 101, 1887, *Plagiognathides*.
 Distant, Fauna Brit. Ind., ii, p. 481, 1904.
 Reuter, Festschr. f. Palmen, i, pp. 15, 26, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, *Plagiogastharia*
 [as synonym of *Chlamydatini*.]
 Oshanin, Kat. Palae. Hemip., p. 77, 1912. (Tribe.)
Nasocoraria Reuter, Hemip. Gymn. Eur., iii, pp. 317, 568, 1883.
 Reuter, Festschr. f. Palmen, i, pp. 16, 27, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906, Tribe *Nasocorini*.
 Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Nasocorini*.
Exaeretaria Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883.
 Reuter, Festschr. f. Palmen, i, pp. 16, 26, 1905.
Camptotylaria Reuter, Hemip. Gymn. Eur., iv, p. 7, 1891. [tylini.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906, Tribe *Campto-*
 Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Camptotylini*.
Cremnorrhinaria Reuter, Hemip. Gymn. Eur., iii, p. 567, 1883; iv, p. 13,
 Reuter, Festschr. f. Palmen, i, pp. 15, 26, 1905. [1891.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906, Tribe *Cremnorrhini*.
 Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Cremaorrhinini*.
Chlamydataria Kirkaldy, Fauna Hawai., iii, p. 131, 1902. [datini
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Tribe *Chlamy-*
 Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Chlamydatini*.

Genus **Reuteroscopus** Kirk.Haplotype *ornatus* (Reut.)

- Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for *Episcopus* Reut.).
 Reuter, Festschr. f. Palmen, i, p. 46, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 28, 1907. (Syn. note.)
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.
 ||*Episcopus* Reuter, Caps. Am. Bor., p. 90, 1876 (Haplotype *ornatus* Reut.).
 Aristoreuteria Kirkaldy, Trans. Ann. Ent. Soc., xxxii, p. 124, 1906 (n.n.
 [for *Episcopus* Reut.].

1213. **Reuteroscopus ornatus** (Reut.)

- Reuter, Caps. Am. Bor., p. 90, 1876, *Episcopus*.
 Van Duzee, Can. Ent., xix, p. 72, 1887, *Episcopus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Episcopus*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 195, *Episcopus*.
 Gillette and Baker, Hemip. Colo., p. 51, 1895, *Episcopus*.
 Seiss, Ent. News, viii, p. 67, 1897, *Episcopus*.

- Reuter, Caps. Am. Bor., p. 89, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 276, 1894.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Apocremnus*.
Localities: Ga., Fla., Texas, Colo.

1216. *Psallus biguttulatus* Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 275, 1894.

Localities: Calif. (Mexico.)

1217. *Psallus sulphureus* Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 23, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 27, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 183, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Apocremnus*.

Localities: Fla. (West Indies).

1218. *Psallus seriatus* (Reut.)Reuter, Caps. Am. Bor., p. 91, 1876, *Atomoscelis*.Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893, *Atomoscelis*.Gillette and Baker, Hemip. Colo., p. 52, 1895, *Atomoscelis*.Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Atomoscelis*.Snow, Trans. Kans. Acad. Sci., xx, pp. 152, 179, 1906, *Atomoscelis*.Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 183, 1909, *Atomoscelis*.Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Atomoscelis*.Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Atomoscelis*.Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Atomoscelis*.

Van Duzee, Check List Hemip., p. 46, 1916.

Localities: Md., D. C., Fla., Utah, Colo., N. Mex., Ariz., Texas, Calif.

1219. *Psallus pilosulus* (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893, *Atomoscelis*.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915.

Van Duzee, Check List Hemip., p. 46, 1916.

Locality: Utah.

1220. *Psallus tuckeri* (Popp.)Poppius, Ann. Soc. Ent. Belg., iv, p. 86, 1911, *Pseudatomoscelis*.

Van Duzee, Check List Hemip., p. 46, 1916.

Locality: Texas.

[*Psallus sericeus* Uhl. MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.

Locality: D. C.

[*Psallus antennatus* Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.

Locality: Ont.

Genus *Sthenarus* Fieb.Logotype *rottermundi* (Schultz)

Fieber, Wien. Ent. Monat., ii, p. 321, 1858.

Fieber, Europ. Hemip., pp. 74, 309, 1861.

Douglas and Scott, Brit. Hemip., p. 421, 1865.

Thomson, Opusc. Ent., iv, p. 449, 1871.

Reuter, Genera Cimic. Eur., p. 55, 1875 (as subgenus).

Reuter, Rev. Crit. Caps., i, p. 99; ii, p. 178, 1875 (as subgenus).

Reuter, Hemip. Gymn. Eur., i, p. 42, 1878; iii, p. 502, 1883.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

Phoenicocoris Reuter, Genera Cimic. Eur., p. 55, 1875 (as subgenus; type [*modestus* Meyer]).

Reuter, Rev. Crit. Caps., i, p. 99; iii, p. 779, 1875 (as subgenus).

Reuter, Caps. Am. Bor., p. 90, 1876.

1221. *Sthenarus pubescens* (Reut.)

Reuter, Caps. Am. Bor., p. 90, 1876, *Phoenicocoris*.

Van Duzee, Check List Hemip., p. 46, 1916.

Locality: Texas.

1222. *Sthenarus cuneotinctus* (Van D.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915, *Psallus*.

Van Duzee, Check List Hemip., p. 46, 1916.

Genus *Criocoris* Fieb.

Haplotype *crassicornis* Hahn

Fieber, Wien. Ent. Monat., ii, p. 319, 1858.

Fieber, Europ. Hemip., pp. 73, 301, 1861.

Reuter, Genera Cimic. Eur., p. 54, 1875.

Reuter, Crit. Rev. Caps., i, p. 99; ii, p. 177, 1875 (as subgenus).

Reuter, Hemip. Gymn. Eur., i, p. 84, 1879; iii, p. 503, 1883.

Oshanin, Verz. Palae. Hemip., i, p. 919, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

Colpochilus Reuter, Genera Cimic. Eur., p. 60, 1875 (type *tenuicornis* [Reut. = *crassicornis* Hahn]).

||*Strongylotes* Reuter, Caps. Am. Bor., p. 88, 1876 (type *saliens* Reut.).

Reuter, Neark. Caps., p. 79, 1909 (redescribed). [*ylotes* Reut.).

||*Laodamia* Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903 (n.n. for *Strong-*

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910. [*damia* Kirk.).

Laodamina Banks, Cat. Nearc. Hemip., pp. 29, 103, 1910 (n.n. for *Lao-*

Criocoridae Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912 (n.n. for [*Laodamia* Kirk.).

1223. *Criocoris saliens* (Reut.)

Reuter, Caps. Am. Bor., p. 88, 1876, *Strongylotes*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Strongylotes*.

Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Strongylotes*.

Reuter, Neark. Caps., p. 79, 1909, *Strongylotes*.

Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Strongylotes*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.

Localities: Texas, Calif.

[Eastern references probably refer to the next species.]

1224. *Criocoris canadensis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 511, 1912.

Localities: Quebec, Ont.

Genus *Microphylellus* Reut.

Orthotype *modestus* Reut.

Reuter, Neark. Caps., p. 76, 1909 (nomen nudum here).

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 62, 1912 (valid here).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

1225. *Microphylellus modestus* Reut.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Phylus* (MS name).

Smith, Cat. Ins. N. J., edn. 3, p. 133, 1900, *Phylus* (MS name).

Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Phylus* (MS name).

Reuter, Neark. Caps., p. 76, 1909 (MS name, as type).

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 62, 1912 (described).

Localities: Ont. Mass., N. Y., N. J., Pa.

1226. *Microphylellus rubricans* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 154, 1887, *Plagiognathus*.

Van Duzee, Can. Ent., xlv, p. 323, 1912, *Rhinocapsus*.

Localities: Quebec, Mass., N. C.

1226^{1/2}. *Microphylellus alpinus* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.

Localities: Calif.

1227. *Microphylellus bicinctus* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914, *Chlamydatus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.

Locality: Calif.

Genus *Rhinocapsus* Uhl.Haplotype *vanduzeei* Uhl

Uhler, Trans. Md. Acad. Sci., i, p. 81, 1890.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

1228. *Rhinocapsus vanduzeei* Uhl.

Van Duzee, Can. Ent., xxi, p. 4, 1889 (MS name).

Uhler, Trans. Md. Acad. Sci., i, p. 82, 1890.

Harrington, Ottawa Nat., vi, p. 28, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.

Slosson, Ent. News, vi, p. 5, 1895.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Van Duzee, Can. Ent., xxxviii, p. 407, 1906.

Moore, Can. Ent., xxxix, p. 162, 1907.

Banks, Ent. News, xxiii, p. 105, 1912.

Localities: Ont., Me., N. H., Mass., N. Y., Md., Va., N. C., Fla.

Genus *Gerhardiella* Popp.Haplotype *rubida* Popp.

Poppius, Ann. Soc. Ent. Belg., iv, p. 84, 1911.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1229. *Gerhardiella rubida* Popp.

Poppius, Ann. Soc. Ent. Belg., iv, p. 85, 1911.

[*scytus*.

rosaceus (Van Duzee), Bul. Buf. Soc. Nat. Sci., x, p. 488, 1912, *Pocillo-*

§rosceus Van Duzee, Check List Hemip., p. 46, 1916 (in synonymy).

Locality: Colo.

1230. *Gerhardiella delicatus* (Uhl.)Uhler, Ent. Am., iii, p. 34, 1887, *Psallus*.Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 275, 1894, *Psallus*.Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Psallus*.Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Psallus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.

Localities: Ga., Kans., Calif.

Genus *Plagiognathus* Fieb.Logotype *arbustorum* Fabr.

Fieber, Wien. Ent. Monat., ii, p. 320, 1858.

Fieber, Europ. Hemip., pp. 73, 302, 1861.

Douglas and Scott, Brit. Hemip., p. 400, 1865.

Thomson, Opusc. Ent., iv, p. 447, 1871.

Reuter, Genera Cimic. Eur., p. 56, 1875.

Reuter, Rev. Crit. Caps., i, p. 99; ii, p. 180, 1875.

Reuter, Hemip. Gymn. Eur., i, pp. 71, 175, 1879; iii, p. 503, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 153, 1887.

Atkinson, Cat. Capsidae, p. 170, 1889.

Oshanin, Verz. Palae. Hemip., p. 921, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1231. *Plagiognathus confusus* Reut.

Reuter, Neark. Caps., p. 80, 1909.

Locality: Nev.

1232. *Plagiognathus affiguratus* Uhl.Uhler, Hemip. Colo., p. 50, 1895, *Macrotylus*.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 61, 1912.

Localities: Colo., Calif.

1233. *Plagiognathus moerens* Reut.Gillette and Baker, Hemip. Colo., p. 51, 1895, *Macrotylus* (MS name).?Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Hoptomachus* (MS name).

Reuter, Neark. Caps., p. 80, 1909 (described).

Localities: Mich., Colo., Wyo., Calif.

1234. *Plagiognathus blatchleyi* Reut.Smith, Cat. Ins. N. J., edn. 2, p. 132, 1900, *Macrotylus* (MS name). [scribed).

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 61, 1912 (de-

Localities: Me., Mass., N. Y., N. J.

1235. *Plagiognathus fuscus* (Prov.)Provancher, Nat. Can., iv, p. 105, 1872, *Lygus*.

Van Duzee, Can. Ent., xlv, p. 323, 1912.

Parshley, Psyche, xxi, p. 143, 1914.

Localities: Quebec, Me.

1236. *Plagiognathus grandis* Reut.

Reuter, Caps. Am. Bor., p. 91, 1876.

Locality: Texas.

1237. *Plagiognathus albat* (Van D.)Van Duzee, Pomona Jl. Ent. Zool., vii, p. 116, 1915, *Psallus*.

Localities: N. Y., Pa., D. C., Calif.

1238. *Plagiognathus fraternus* Uhl.

- Uhler, Hemip. Colo., p. 51, 1895.
 Slosson, Ent. News, xi, p. 323, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
 Parshley, Psyche, xxi, p. 143, 1914.
 Localities: Me., N. H., N. Y., Pa., Colo.

1239. *Plagiognathus obscurus* Uhl.

- Uhler, Hayden's Surv. Terr. for 1871, p. 418, 1872.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 422, 1877.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 409, 1878.
 Van Duzee, Can. Ent., xix, p. 72, 1887.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
 Slosson, Ent. News, vi, p. 5, 1895.
 Gillette and Baker, Hemip. Colo., p. 52, 1895.
 Osborn, Ohio Nat., i, p. 12, 1900.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 110, 1903.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
 Van Duzee, Can. Ent. xxxviii, p. 408, 1906.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Van Duzee, Can. Ent., xl, p. 113, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
 Parshley, Psyche, xxi, p. 143, 1914.
†fuscus Provancher, Pet. Faune Ent. Can., iii, p. 153, 1887 (not of 1872).
†delicatus (Provancher), Pet. Faune Ent. Can., iii, p. 152, 1887, *Psallus*.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ohio,
 Kans., Colo.

1240. *Plagiognathus annulatus* Uhl.

- Uhler, Hemip. Colo., p. 51, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 Localities: Ont., Mass., N. Y., Pa., Kans., Colo.

1241. *Plagiognathus politus* Uhl.

- Uhler, Hemip. Colo., p. 52, 1895.
 Smith, Cat. Ins. N. J., edn. 2, p. 133, 1900.
 Montgomery, Ent. News, xiii, p. 13, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

- Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
 Moore, Can. Ent., xxxix, p. 162, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Parshley, Psyche, xxi, p. 143, 1914. [cremnus.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916, *Apo-*
 Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Kans., Manitoba.
 (Mexico?)

1242. *Plagiognathus breviceps* (Reut.)

- Reuter, Neark. Caps., p. 78, 1909, *Psallus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Psallus*?
 Van Duzee, Check List Hemip., p. 47, 1916.

[*Plagiognathus cunealis* Uhl. MS]

- Reuter, Neark. Caps., p. 78, 1909, *Psallus*.
 Locality: D. C.

[*Plagiognathus pallipes* Uhl. MS]

- Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
 Localities: Kans., Ia.

Genus *Apocremnus* Fieb.

Haplotype *ancorifer* Fieb.

- Fieber, Wien. Ent. Monat., ii, p. 320, 1858.
 Fieber, Europ. Hemip., pp. 74, 304, 1861.
 Douglas and Scott, Brit. Hemip., p. 403, 1865.
 Thomson, Opusc. Ent., iv, p. 445, 1871.
 Reuter, Rev. Crit. Caps., i, p. 98; ii, p. 159, 1875 (subgen. of *Psallus*).
 Reuter, Crit. Rev. Caps., i, p. 98; ii, p. 159, 1875 (subgen. of *Psallus*).
 Atkinson, Cat. Capsidae, p. 160, 1889 (as synonym. of *Psallus*).
 Oshanin, Verz. Palae. Hemip., i, p. 897, 1909 (as synonym. of *Psallus*).
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910 (includes *Psallus*).
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1243. *Apocremnus ancorifer* Fieb.

- Fieber, Wien. Ent. Monat., ii, p. 336, 1858.
 Fieber, Europ. Hemip., p. 304, 1861.
 Walker, Cat. Heter., vi, p. 150, 1873, *Eurymerocoris*.
 Reuter, Genera Cimic. Eur., p. 47, 1875.
 Reuter, Hemip. Gymn. Eur., i, p. 104, pl. 7, fig. 7, 1878; iii, pp. 517, 518, 1883.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Psallus*.
 Reuter, Neark. Caps., p. 77, 1909, *Psallus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Psallus*.
nigripes male (Fieber), Europ. Hemip., p. 295, 1861, *Atractotomus*.
minor Reuter, Hemip. Gymn. Eur., iii, p. 460, 1883 (as variety).
puberulus (Montandon), Rev. d'Ent., vi, p. 68, 1887, *Psallus*.
 [robustus Uhl. MS] Smith, Cat. Ins. N. J., edn. 2, p. 132, 1900.
 Localities: N. Y., N. J., D. C., Calif. (Europe.)

1244. *Apocremnus variabilis* (Fall.)

- Fallén, Monog. Cimic. Suec., p. 88, 1807, *Lygaeus*.
 Fallén, Hemip. Suec., Cimic., p. 98, 1829, *Phytocoris*.
 Hahn, Wanz. Ins., ii, p. 137, fig. 224, 1834, *Phytocoris*.
 Zetterstedt, Ins. Lapp., column 275, 1840, *Phytocoris*.
 Meyer-Duer, Verz. Schw. Rhyn., p. 68, 1843, *Capsus*.
 Sahlberg, Monog. Geoc. Fenn., p. 115, 1848, *Capsus*.
 Costa, Cimic. Reg. Neap., Cent., iii, p. 268, 1852, *Phytocoris*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 93, No. 129, 1855, *Capsus*.
 Flor, Rhyn. Livl., i, p. 592, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 305, 1861.
 Douglas and Scott, Brit. Hemip., p. 408, 1865.
 Thomson, Opusc. Ent., iv, p. 447, 1871, *Capsus*.
 Walker, Cat. Heter., vi, p. 151, 1873, *Eurymicrocoris*.
 Reuter, Genera Cimic. Eur., p. 49, 1875.
 Reuter, Rev. Crit. Caps., ii, p. 165, 1875.
 Reuter, Hemip. Gymn. Eur., i, p. 116, pl. 7, fig. 5, 1878; ii, p. 303, 1879; iii, [p. 520, 1883].
 Van Duzee, Can. Ent., xxi, p. 4, 1889.
 Saunders, Heter. Brit. Isds., pp. 311, 313, pl. 29, fig. 6, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
 Banks, Cat. Neark. Hemip., p. 31, 1910.
 perrisii (Mulsant & Rey), Ann. Soc. Linn., Lyons, i, p. 139, 1852, *Capsus*.
 salicis (Douglas and Scott), Brit. Hemip., p. 415, 1865, *Psallus*.
 Localities: Ont., N. Y. (Europe.)

1244½. *Apocremnus nigerrimus* Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.
 Locality: Calif.

Genus *Bolteria* Uhl.Haplotype *amicta* Uhl.

- Uhler, Ent. Am., iii, p. 33, 1887.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.
 Van Duzee, Psyche, xxiii, p. 141, 1916.

1245. *Bolteria amicta* Uhl.

- Uhler, Ent. Am., iii, p. 34, 1887.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.
 Locality: N. Mex.

1246. *Bolteria picta* Uhl.

- Uhler, Proc. Ent. Soc. Wash., ii, p. 373, 1893.
 Gillette and Baker, Hemip. Colo., p. 51, 1895.
 Reuter, Neark. Caps., p. 72, 1909, *Hyoidea*.
 Localities: Colo., Utah.

a. var. hirta Van D.

- Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 244, 1916.
 Locality: Calif.

Genus *Atractotomus* Fieb.Logotype *magnicornis* Fall.

- Fieber, Wien. Ent. Monat., ii, p. 317, 1858.
 Fieber, Europ. Hemip., pp. 77, 294, 1861.

- Thomson, Opusc. Ent., iv, p. 445, 1871.
 Reuter, Genera Cimic. Eur., p. 46, 1875.
 Reuter, Rev. Crit. Caps., i, p. 98; ii, p. 156, 1875.
 Reuter, Hemip. Gymn. Eur., i, p. 92, 1878; iii, p. 503, 1883.
 Atkinson, Cat. Capsidae, p. 167, 1889.
 Oshanin, Verz. Palae. Hemip., i, p. 914, 1909.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1247. *Atractotomus hesperius* Reut.

Reuter, Neark. Caps., p. 78, 1909.

Locality: Calif.

1248. *Atractotomus albidicoxis* Reut.

Reuter, Neark. Caps., p. 79, 1909.

Locality: Ariz.

Genus *Leucopocila* Reut.

Haplotype *albofasciata* Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlix, No. 5, p. 24, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1249. *Leucopocila albofasciata* Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlix, No. 5, p. 26, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 28, 1907.

Reuter, Neark. Caps., p. 83, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 31, 1914.

†*forticornis* Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Rhinocloa*.

Localities: Pa., Fla., Calif. (West Indies.)

Genus *Myochroocoris* Reut.

Haplotype *griseolus* Reut.

Reuter, Neark. Caps., p. 77, 1909.

1250. *Myochroocoris griseolus* Reut.

Reuter, Neark. Caps., p. 77, 1909.

Locality: Texas.

Genus *Atomoscelis* Reut.

Logotype *onustus* Fieb.

Reuter, Genera Cimic. Eur., p. 57, 1875 (as subgenus).

Reuter, Rev. Crit. Caps., i, p. 100, 1875 (as subgenus).

Reuter, Hemip. Gymn. Eur., i, p. 67, 1878; ii, p. 298, 1879; iii, p. 502, 1883.

Reuter, Of. Finska Vet. Soc. Forh., xlv, p. 61, 1902 (redescribed).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906 (cites *onustus* as type).

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1251. *Atomoscelis modestus* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914, *Tuponia*.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915 (notice).

Locality: Calif.

Genus *Europiella* Reut.

Orthotype *stigmosa* Uhl.

Reuter, Neark. Caps., p. 83, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1252. *Europiella stigmosa* (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes*.

Reuter, Neark. Caps., p. 84, 1909.

Localities: Colo., Utah, Nevada, Calif.

1253. *Europiella decolor* (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 380, 1893, *Agalliastes*.Gillette and Baker, Hemip. Colo., p. 54, 1895, *Agalliastes*.Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes*.Reuter, Neark. Caps., p. 81, 1909, *Plagiognathus*.Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Plagiognathus*.

Localities: Kans., Colo., Utah, Nev., Calif.

1254. *Europiella concinna* Reut.

Reuter, Neark. Caps., p. 84, 1909.

Locality: Calif.

1255. *Europiella umbrina* Reut.

Reuter, Neark. Caps., p. 85, 1909.

[*biguttata* Uhl. MS] Reuter, Neark. Caps., p. 85, 1909 (synonym).

Locality: Calif.

1265. *Europiella rubida* (Uhl.)Uhler, Hemip. Colo., p. 41, 1895, *Sthenarus*.Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Sthenarus*.

Reuter, Neark. Caps., p. 85, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: N. Y., Fla., Ill., Kans., Colo., Texas.

Genus *Tuponia* Reut.Logotype *lethierryi* Reut.

Reuter, Gen. Cimic. Eur., p. 53, 1875 (as subgenus).

Reuter, Rev. Crit. Caps., i, p. 98, 1875 (as subgenus).

Reuter, Hemip. Gymn. Eur., i, p. 16, 1878; iii, p. 499, 1883.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (names *lethierryi* type).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1257. *Tuponia subnitida* Uhl.

Uhler, Hemip. Colo., p. 45, 1895.

Locality: Colo.

[*Tuponia herbacea* Uhl. MS]

Townsend, Can. Ent., xxiv, p. 194, 1892.

Locality: N. Mex.

Genus *Chlamydatus* Curt.Haplotype *marginatus* Curt. = *saltitans* (Fall.)

Curtis, Ent. Mag., i, p. 197 (May), 1833.

Curtis, Brit. Ent., xv, pl. 693, 1838.

Reuter, Rev. d'Ent., v, p. 122, 1886.

Puton, Cat. Hemip. Palae., edn. 3, p. 62, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 137, 1887.

- Berg, Nova Hemip., p. 99, 1892.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906.
 Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 931, 1909.
 Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 216, 1916.
 ||*Attus* Hahn, Wanz. Ins., i, p. 116, 1831 (haplotype *pulicarius* Fall.).
 Burmeister, Handb. d. Ent., ii, p. 276, 1835.
Agalliaestes Fieber, Wien. Ent. Zeit., ii, p. 321, 1858 (type *saltitans* Fall.).
 Fieber, Europ. Hemip. pp. 74, 310, 1861.
 Thomson, Opusc. Ent., iv, p. 449, 1871.
 Reuter, Genera Cimic. Eur., p. 59, 1875 (as subgenus).
 Reuter, Rev. Crit. Caps., i, p. 100; ii, p. 186, 1875 (as subgenus).
 Reuter, Hemip. Gymn. Eur., i, p. 60, 1878; iii, p. 501, 1883.
 Provancher, Pet. Faune Ent. Can., iii, p. 154, 1887.
 Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.

1258. *Chlamydatus pulicarius* (Fall.)

- Fallén, Monog. Cimic. Suec., p. 95, 1807, *Lygaeus*.
 Fallén, Hemip. Suec., Cimic., p. 113, 1829, *Phytocoris*.
 Hahn, Wanz. Ins., i, p. 117, fig. 62, 1831, *Attus*.
 Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Attus*.
 Meyer-Duer, Verz. Schw. Rhyn., p. 110, 1843, *Capsus*.
 Sahlberg, Monog. Geoc. Fenn., p. 119, 1848, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 101, No. 149, 1855, *Capsus*.
 Flor, Rhyn. Livl., i, p. 600, 1860, *Capsus*.
 Fieber, Europ. Hemip., p. 312, 1861, *Agalliaestes*.
 Fieber, Wien. Ent. Monat., viii, p. 229, 1864, *Agalliaestes*.
 Douglas and Scott, Brit. Hemip., p. 427, pl. 14, fig. 1, 1865, *Agalliaestes*.
 Thomson, Opusc. Ent., iv, p. 448, 1871, *Capsus*.
 Walker, Cat. Heter., vi, p. 155, 1873, *Eurymerocoris*.
 Reuter, Genera Cimic. Eur., p. 59, 1875, *Agalliaestes*.
 Reuter, Rev. Crit. Caps., ii, p. 186, 1875, *Agalliaestes*.
 Reuter, Hemip. Gymn. Eur., i, p. 60, pl. 3, fig. 8, 1878; iii, p. 510, 1883,
 Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliaestes*. [*Agalliaestes*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
salicens (Wolff), Leon. Cimic., v, p. 200, fig. 194, 1811, *Capsus*.
?pallipes (Jakowlev), Horae Soc. Ent. Ross., iv, p. 158, 1867, *Agalliaestes*.
 Localities: N. Y. (Europe.)

1259. *Chlamydatus suavis* (Reut.)

- Reuter, Caps. Am. Bor., p. 92, 1876, *Agalliaestes*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Agalliaestes*.
 Reuter, Neark. Caps., 83, 1909.
 Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
 Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905, *Agalliaestes*.
 Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.
 [*simplex* Uhl. MS] Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885,
 Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893, *Agalliaestes*. [*Agalliaestes*.
 Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliaestes*.
 Localities: Ont., N. Y., Pa., D. C., Ala., Fla., Kans., Texas, Calif.

1260. *Chlamydatus associatus* (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872, *Agalliastes*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Agalliastes*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Agalliastes*.

Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliastes*.

Provancher, Pet. Faune Ent. Can., iii, p. 155, 1887, *Agalliastes*.

Van Duzee, Can. Ent., xxi, p. 5, 1889, *Agalliastes*.

Osborn, Proc. 1a. Acad. Sci., i, pt. 2, p. 123, 1892, *Agalliastes*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes*.

Gillette and Baker, Hemip. Colo., p. 54, 1895, *Agalliastes*.

Osborn, Ohio Nat., i, p. 12, 1900, *Agalliastes*.

Slosson, Ent. News, xi, p. 323, 1900, *Agalliastes*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Agalliastes*.

Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905, *Agalliastes*.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.

Reuter, Neark. Caps., p. 82, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Ohio, Ia.,
Colo., Utah, N. Mex., Texas, Calif.

1261. *Chlamydatus uniformis* (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes*.

Locality: Utah.

1262. *Chlamydatus luctuosus* Prov.

(Entered in Check List by error; see No. 1108.)

1263. *Chlamydatus apiatus* (Uhl.)

Uhler, Hemip. Colo., p. 53, 1895, *Agalliastes*.

Localities: Kans., Colo.

1264. *Chlamydatus fumidus* (Uhl.)

Uhler, Hemip. Colo., p. 54, 1895, *Agalliastes*.

Locality: Colo.

1265. *Chlamydatus obliquus* (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893, *Agalliastes*.

Reuter, Neark. Caps., p. 83, 1909.

Locality: Utah.

1266. *Chlamydatus bakeri* Bergr.

Bergroth, Wien. Ent. Zeit., xvii, p. 35, 1898.

signatus (Uhler), Hemip. Colo., p. 55, 1895, *Agalliastes*.

Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes*.

uhlerianus Kirkaldy, Can. Ent., xli, p. 390, 1909.

Locality: Colo.

Genus *Campylomma* Reut.

Logotype *nigronasuta* Reut.

Reuter, Hemip. Gymn. Eur., i, p. 52, 1878; iii, p. 501, 1883. [type].

Distant, Fauna Brit. Ind., Rhyn., ii, p. 483, 1904 (names *nigronasuta* Reut.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906 (cites *nigronasuta* as Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916. [type].

1267. **Campylomma verbasci** (Mey.)

Meyer-Duer, Verz. Schw. Rhyn., p. 70, pl. 4, fig. 1, 1843, *Capsus*.

Fieber, Europ. Hemip., p. 311, 1861, *Agalliastes*.

Reuter, Hemip. Gymn. Eur., i, p. 53, pl. 3, fig. 6, 1878; iii, p. 509, 1883.

Uhler, Check List, p. 21, 1886, *Agalliastes*.

Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliastes*.

Provancher, Pet. Faune Ent. Can., iii, p. 155, 1887, *Agalliastes*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.

Reuter, Neark. Caps., p. 81, 1909.

Van Duzee, Can. Ent., xlv, p. 323, 1912.

?*punctipes* Herrich-Schaeffer, Nomen. Ent., i, p. 50, 1835, *Capsus*.

pellucidus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 190, 1869, *Orthotylus*.

Localities: Quebec, Ont., Me., N. Y. (Europe.)

Genus **Cylloceps** Uhl.

Haplotype *pellicia* Uhl.

Uhler, Proc. Ent. Soc. Lond. for 1893, p. 711.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 162, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1268. **Cylloceps pellicia** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 712.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Fla. (West Indies.)

Genus **Maurodactylus** Reut.

Logotype *nigricornis* Reut. = *albidus* Kol.

Reuter, Hemip. Gymn. Eur., i, p. 27, 1878; iii, p. 500, 1883.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (names *nigricornis* Reut.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916. [type].

1269. **Maurodactylus angulatus** Uhl.

Uhler, Hemip. Colo., p. 53, 1895.

Locality: Colo.

1270. **Maurodactylus consors** Uhl.

Uhler, Hemip. Colo., p. 53, 1895.

Locality: Colo.

1271. **Maurodactylus semiustus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 31, 1914.

Locality: Calif.

Genus **Rhinacloa** Reut.

Haplotype *forticornis* Reut.

Reuter, Caps. Am. Bor., p. 88, 1876.

Reuter, Neark. Caps., p. 81, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1272. *Rhinocloa forticornis* Reut.

Reuter, Caps. Am. Bor., p. 89, 1876.

Townsend, Can. Ent., xxiv, p. 194, 1892.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 196.

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 178, 1907 (notice).

Reuter, Neark. Caps., p. 82, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.

Localities: Texas, N. Mex., Utah, Calif. (West Indies, Mexico.)

UNCERTAIN FORMS

Genus *Microsynamma* Fieb.

Type *scotti* Fieb. = *nigritulus* Zett.

Fieber, Wien. Ent. Monat., viii, p. 74, 1864.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 146, 1910.

Oshanin, Kat. Palae. Hemip., p. 83, 1912. [*scotti* Scott = *nigritula* Zett.).

Monosynamma Scott, Ent. Annual for 1864, p. 160, fig. 5 (Haplotype

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 934, 1909.

Neocoris Douglas and Scott, Brit. Hemip., p. 423, 1865 (Logotype *scotti*

Reuter, Genera Cimic. Eur., p. 58, 1875. [Fieb. = *nigritula* Zett.).

Reuter, Rev. Crit. Caps., i, p. 100; ii, p. 184, 1875 (as subgenus).

Reuter, Hemip. Gymn. Eur., i, p. 55, 1878; iii, p. 502, 1884.

Puton, Cat. Hemip. Palae., edn. 3, p. 62, 1886.

Atkinson, Cat. Capsidae, p. 175, 1889.

Microsynamma bohemanii (Fall.)

Fallén, Hemip. Suec. Cimic., p. 106, 1829, *Phytocoris*.

Zetterstedt, Ins. Lapp., column 276, 1840, *Phytocoris*.

Flor, Rhyn. Livl., i, p. 625, 1860, *Capsus*.

Fieber, Europ. Hemip., p. 303, 1861, *Plagiognathus*.

Douglas and Scott, Brit. Hemip., p. 424, pl. 13, fig. 9, 1865, *Neocoris*.

Thomson, Opusc. Ent., iv, p. 448, 1871, *Capsus*.

Walker, Cat. Heter., vi, p. 150, 1873, *Eurymerocoris*.

Reuter, Genera Cimic. Eur., p. 58, 1875, *Neocoris*.

Reuter, Rev. Crit. Caps., ii, p. 184, 1875, *Neocoris*.

[*Neocoris*.

Reuter, Hemip. Gymn. Eur., i, p. 57, 1878; ii, p. 303, 1879; iii, p. 509, 1883.

Saunders, Heter. Brit. Isds., pp. 319, 321, pl. 30, fig. 5, 1892, *Plagiognathus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894, *Plagiognathus*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Neocoris*.

ruficollis Fallén, Hemip. Suec. Cimic., p. 107, 1829, *Phytocoris*.

furcatus Herrich-Schaeffer, Nomen. Ent., i, p. 52, 1835, *Capsus*.

Herrich-Schaeffer, Wanz. Ins., iv, p. 79, figs. 408, 409, 1839, *Capsus*.

Kirschbaum, Rhyn. v. Wiesbdl., Caps., p. 95, No. 134, 1855, *Capsus*.

Localities: N. Y. (?) (Europe.)

Capsus obscurellus Walk.

Walker, Cat. Heter., vi, p. 93, 1873.

Locality: "Hudson's Bay."

Capsus frontifer Walk.

Walker, Cat. Heter., vi, p. 94, 1873.

Locality: "N. Am."

Capsus pallescens Walk.

Walker, Cat. Heter., vi, p. 94, 1873.

Locality: "Hudson's Bay."

Family ISOMETOPIDAE Fieb.

Fieber, Wien. Ent. Monat., iv, p. 259, 1860.

Fieber, Europ. Hemip., pp. 26, 60, 237, 1861.

Reuter, Genera Cimic. Europ., p. 7, 1875, Div. *Isometoparia*.Reuter, Rev. Crit. Caps., i, p. 65, 1875, Subfam. *Isometopina*.Puton, Cat. Hemip. Palae., edn. 3, p. 63, 1886, Tribe *Isometopini*.Atkinson, Cat. Capsidae, p. 180, 1889, Div. *Isometoparia*.Distant, Fauna Brit. Ind., Rhyn., ii, p. 483, 1904, Subfam. *Isometopinae*.

Reuter, Festsch. f. Palmen, i, p. 12, 1905.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Isometopinae*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 51, 69, 104, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 20, 1911.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 53, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

[(Tribe.)]

Heidemanniini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.**Genus Myiomma** Put.Type *fieberi* Put.

Puton, Pet. Nouv. Ent., i, p. 177, 1872.

Puton, Ann. Soc. Ent. Fr., ser. 5, iii, p. 20, 1873.

Reuter, Genera Cimic. Eur., p. 60, 1875.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906.

Horvath, Ann. Mus. Natl. Hung., vi, p. 9, 1908.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 27, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Heidemannia Uhler, Proc. Ent. Soc. Wash., ii, p. 119, 1891.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.

1273. **Myiomma cixiiformis** (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 121, 1891, *Heidemannia*.Banks, Ent. News, xviii, p. 425, 1907, *Heidemannia*.Heidemann, Proc. Ent. Soc. Wash., ix, p. 128, 1908, *Heidemannia*.

Localities: Md., D. C., Va.

Genus Isometopus Fieb.Type *intrusus* H. S.

Fieber, Wien. Ent. Monat., iv, p. 259, 1860.

Fieber, Europ. Hemip., pp. 66, 237, 1861.

Reuter, Genera Cimic. Europ., p. 61, 1875.

Distant, Fauna Brit. Ind., Rhyn., ii, p. 484, 1904 (names *intrusus* type).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906.

Cephalocoris Stein, Berl. Ent. Zeit., iv, p. 79, 1860.

1274. *Isometopus pulchellus* Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 128, fig. 7a, 1908.

Localities: N. Y., W. Va., Va.

1275. *Isometopus signatus* Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 129, fig. 7b, 1908.

Locality: Texas.

1276. *Isometopus unicolor* Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 130, figs. 7c, d, 1908.

Locality: Ariz.

SERIES *TRICHOTELOCERA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 67, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Superfamily **DIPSOCOROIDEAE** Reut.

Reuter, Acta Soc. Sci. Fenn., xxvii, No. 3, p. 67, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Ceratocombidae Fieber, Europ. Hemip., pp. 25, 39, 142, 1861. [(Subfam.)Reuter, Of. Vet. Akad. Forh., xxviii, p. 405, 1871, *Ceratocombina*.Stål, Enum. Hemip., iii, p. 103, 1873, *Ceratocombina*. (Subfam. of
[*Cimicidae*].)Puton, Cat. Hémip. Palae., edn. 3, p. 42, 1886, *Ceratocombini*. (Tribe.)Ashmead, Ent. Am., iv, p. 68, 1888 (*Ceratocampidae* by error).

Reuter, Acta Soc. Sci., Fenn., xix, No. 6, p. 3, 1891.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 231, 1896.

Champion, Biol. Centr. Am., Heter., ii, p. 335, 1900.

Distant, Fauna Br. Ind., Rhyn., ii, p. 408, 1904. (Family.)

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.

Family **DIPSOCORIDAE** Dohrn

Dohrn, Cat. Hemip., p. 36, 1859.

Kirkaldy, Can. Ent., xxxviii, p. 375, 1906; xl, p. 361, 1908.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1911.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 52, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912. [subfamily].

Ceratocombina Reut., Acta Soc. Sci. Fenn., xix, No. 6, p. 3, 1891 (as

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 231, 1896, Subfam.

[*Ceratocombidae*.]Distant, Fauna Br. Ind., Rhyn., ii, p. 408, 1904, Subfam. *Cerato-*
[*combinae*.]Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906, Subfam. *Cerato-*
Bergroth, Wien. Ent. Zeit., xxxi, p. 164, 1912. [*combinae*.]

Genus **Ceratocombus** Sign.Haplotype *mulsanti* Sign. = *colcoptratus* Zett.

Signoret, Ann. Soc. Ent. Fr., ser. 4, x, p. 542, 1852.

Fieber, Wien. Ent. Monat., iv, p. 267, 1860.

Fieber, Europ. Hemip. pp. 39, 142, 1861.

Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 4, 1891.

Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 65, 1912.

Lichenobia Baerensprung, Berl. Ent. Zeit., i, p. 165, 1857 (type *ferruginea* Baer.).*Xylonomus* Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 8, 1891 (type *corticalis* Reut.).1277. **Ceratocombus(?) brasiliensis** Reut.

Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 7, 1891.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 196.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.

Localities: Fla.(?), N. Mex.(?). (Brazil.)

1278. **Ceratocombus niger** Uhl.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.

Locality: N. Mex.

1279. **Ceratocombus latipennis** Uhl.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.

Locality: N. Mex.

Family **SCHIZOPTERIDAE** Reut.Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 3, 1891, Subfam. *Schizopterina*.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 233, 1896, Subfam.

[*Schizopteridae*.Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906, Subfam. *Schizopterinae*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1911.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 52, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Genus **Glyptocombus** Heid.Haplotype *saltator* Heid.

Heidemann, Proc. Ent. Soc. Wash., vii, p. 192, 1906

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 66, 1912.

1280. **Glyptocombus saltator** Heid.

Heidemann, Proc. Ent. Soc. Wash., vii, p. 194, 1906.

Horvath, Ann. Mus. Natl. Hung., vi, p. 565, 1908, *Hypselosoma*.

Locality: Md.

SERIES **HYDROBIOTICA** Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 56, 60, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 14, 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Superfamily GERROIDEAE (Leach)

- Leach, Brewster's Edinbg. Encey., ix, p. 123, 1815, *Gerriidac*.
 Spinola, Tavola Sinot., pp. 38, 42, 1850, Subfam. *Gerroidac*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (as family).
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 204, 1909 (as family).
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 65, 1910.
 Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 85, 1912.
Ploteres Latreille, Hist. Nat. Crust. Ins., xii, p. 263, 1804.
 Latreille, Genera Crust. Ins., iii, p. 130, 1807.
 Latreille, Fam. Nat. Règne Anim., p. 424, 1825.
 Amyot and Serville, Hémip., pp. 1, 409, 1843. (French *Ramcurs*.)
 Dohrn, Cat. Hemip., p. 53, 1859.
Amphibicorises Dufour, Rech. Anat. Phys. Hemip., p. , 1833.
 Spinola, Essai sur les Hémip., p. 63, 1837 (1840), *Amphibicoryzes*.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 64, 1853, *Amphibicores*.
Hydrometrites Laporte, Essai Classif. Syst. Hemip., p. 22, 1832.
 Burmeister, Handb. d. Ent., ii, p. 206, 1835, *Hydrodromici*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 467; Synop., p. 119, 1840,
 Fieber, Genera Hydroc., p. 9, 1851, *Hydrodromica*. [*Hydrometridac*.]
 Flor, Rhyn. Livl., i, p. 725, 1860, *Hydrodromica*.
 Fieber, Europ. Hemip., p. 22, 1860, *Hydrodromica*.
 Douglas and Scott, Brit. Hemip., pp. 11, 40, 557, 1865, *Hydrodromica*.
 Provancher, Pet. Faune Ent. Can., iii, p. 192, 1888, *Hydrometrides*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 53, 1896, *Hydrometridac*.
 Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898, *Hydrometridac*.
 Van Duzee, Check List Hemip., p. 48, 1916, *Hydrometroidca*.
Pelicens Brullé, Hist. Nat. des Ins., ix, p. 285, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 95, 1840.

PHALANX HYDROMETRAEFORMES Reut.

- Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Family HYDROMETRIDAE (Billb.)

- Billberg, Enum. Ins. Mus. Billb., p. 67, 1820, *Hydrometrides*.
 Stephens, Syst. Cat. Brit. Ins., ii, p. 352, 1829.
 Costa, Cimic. Reg. Neap., Cent. i, p. 11, 1838, *Hydrometrini*.
 Spinola, Tavola Sinot., pp. 44, 45, 1850, Subfam. *Hydrometroidac*.
 Amyot and Serville, Hémip., pp. xlix, 398, 1843, Groupe *Hydrometrides*.
 Stål, Hemip. Afr., iii, p. 166, 1865, *Hydrometrída*.
 Schiodte, Nat. Tidskr., Ser. 3, vi, p. 266, 1869, *Hydrometrac*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Hydrometrina*.
 Uhler, Stand. Nat. Hist., ii, p. 275, 1884, *Hydrometridac*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 36, 1886, Tribe *Hydrometrini* (part).
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 54, 1896 (as subfamily).
 Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898, Subfam. *Hydrometrinac*.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 170, 1904, Subfam. *Hydrometrinac*.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906, Subfam. *Hydrometrinae*.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908, Subfam. *Hydro-*
Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911, *Hydrometridae*. [metrinae.

Limnobatidea Fieber, Genera Hydroc., p. 9, 1851.

Fieber, Europ. Hemip., pp. 23, 103, 1861, *Limnobatidae*.

Douglas and Scott, Brit. Hemip., p. 575, 1865, *Limnobatidae*.

Uhler, Check List, p. 26, 1886, *Limnobatidae*.

Genus **Hydrometra** Lam.

Logotype *stagnorum* Linn.

Latreille, Précis, p. 86, 1796 (invalid here).

Lamarck, Syst. Anim. s. Vert., p. 295, 1801 (valid here).

Latreille, Hist. Nat. Crust. Ins., iii, p. 250, 1802 (names *stagnorum* example).

Walekenaer, Fauna Paris., ii, p. 350, 1802 (part).

Latreille, Hist. Nat. Crust. Ins., xii, p. 267, 1804 (gives *stagnorum* as example).

Latreille, Genera Crust. Ins., iii, p. 131, 1807 (mentions *stagnorum* only).

Latreille, Consid. Génl., p. 434, 1810 (names *stagnorum* type).

Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (for *stagnorum*).

Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 511, 1816.

Latreille, Fam. Nat. Règne. Anim., p. 424, 1825 (no species mentioned).

Laporte, Essai Classif. Syst. Hémip., p. 22, 1832 (names *stagnorum* type).

Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835 (*stagnorum* only species).

Brullé, Hist. Nat. des Ins., ix, p. 303, 1835 (*stagnorum* only species).

Spinola, Essai sur les Hémip., p. 63, 1837.

Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *stagnorum*

Amyot and Serville, Hémip., p. 398, 1843. [as type).

Spinola, Tavola Sinot, p. 45, 1850.

Stål, Hemip. Afr., iii, p. 166, 1865.

Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 170, 1904.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.

Limnobates Burmeister, Handb. d. Ent., ii, p. 210, 1835 (type *stagnorum*).

Herrich-Schaeffer, Wanz. Ins., ix, p. 118, 1853 (*stagnorum* only species).

Fieber, Europ. Hemip., pp. 32, 103, 1861.

Douglas and Scott, Brit. Hemip., p. 575, 1865.

Uhler, Check List, p. 26, 1886.

Provancher, Pet. Faune Ent. Can., iii, p. 193, 1888.

1281. **Hydrometra martini** Kirk.

Kirkaldy, Entomologist xxxiii, p. 175, 1900 (n.n. for *lineata* Say).

Bueno, Ent. News, xxxvii, p. 12, 1905.

Bueno, Jl. N. Y. Ent. Soc., iii, p. 39, 1905; xvi, p. 234, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Parshley, Psyche, xxi, p. 143, 1914.

||*lineata* Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl.

Uhler, Stand. Nat. Hist., ii, p. 276, 1884. [Writ., i, p. 361.

Provancher, Pet. Faune Ent. Can., iii, p. 193, 1898, *Limnobates*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894, *Limnobates*.

Kirkaldy, Entomologist, xxxi, p. 2, 1898.

Martin, Can. Ent., xxxii, p. 70, pl. 3, 1900.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906.

Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ind., Ill., La., Texas, Ariz.

1282. *Hydrometra australis* Say

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl. Writ., i, p. Bueno, Can. Ent., xxxvii, pp. 15, 264, 1905. [36L

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Ga., Fla., La.

PHALANX *GERRIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 66, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 86, 1912.

Family **GERRIDAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. 1, 410, 1843, Groupe *Gerrides*.

Dohrn, Cat. Hemip., p. 53, 1859, *Gerridae*.

Puton, Synop. Heter. Fr., i, p. 152, 1879, Tribe *Gerridini*.

Reuter, Ent. Tidskr., iii, p. 165, 1882, Subfam. *Gerridina*.

Puton, Cat. Hémip. Palae., edn. 3, p. 36, 1886, Tribe *Gerridini*.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 59, 1896.

Champion, Biol. Centr. Am., Heter., ii, p. 144, 1898, Subfam. *Gerrinae*.

Bergroth, Ent. Mo. Mag., ser. 2, xiii, p. 258, 1902.

Distant, Fauna Br. Ind., Rhyn., ii, pp. 168, 175, 1903.

Horvath, Ann. Mus. Natl. Hung., ii, p. 576, 1904, *Gerrididae*.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906, Subfam. *Gerrinae*.

Bergroth, Wien. Ent. Zeit., xxv, p. 6, 1906.

Kirkaldy, Can. Ent., xl, p. 360, 1908.

Oshanin, Verz. Palae. Hemip., i, p. 490, 1908, Subfam. *Gerridina*.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908, Subfam. *Gerrinae*.

Reuter, Acta Soc. Sci. Fenn., xxxvii, pp. 66, 81, 1910.

Distant, Fauna Br. Ind., Rhyn., v, p. 141, 1910, Subfam. *Gerrinae*.

Banks, Cat. Neare. Hemip., p. 26, 1910.

Horvath, Ann. Mus. Natl. Hung., ix, p. 23, 1911.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Subfam. *Gerrinae*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 16, 48, 54, 1912.

Oshanin, Kat. Palae. Hemip., p. 86, 1912.

Hydrometridea Fieber, Genera Hydroc., p. 9, 1851.

Fieber, Europ. Hemip., pp. 24, 33, 106, 1861, *Hydrometrac.*

Hydrobatida Stål, Hemip. Afr., iii, p. 168, 1865.

Stål, Of. Vet. Akad. Forh., xxv, p. 395, 1868.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.

Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Hydrobatina*.

Berg, Hemip. Argent., p. 182, 1879, *Hydrobatina*.

Uhler, Stand. Nat. Hist., ii, p. 267, 1884, *Hydrobatidae*.

Uhler, Check List, p. 26, 1886, *Hydrobatidae*.

Subfamily GERRINAE Bian.

Bianchi, Ann. Mus. Petersb. for 1896, p. 69.

Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 509, 1899, *Gerritae*.

Distant, Fauna Br. Ind., Rhyn., ii, p. 176, 1903; v, p. 141, 1910, Div. *Gerri-*

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Tribe *Gerrini*. [naria.

Genus *Gerris* Fabr.Logotype *lacustris* Linn.

Fabricius, Ent. Syst., iv, p. 187, 1794 (indicates *lacustris* as typical).

Latreille, Précis, p. 85, 1796 (no species mentioned). [example).

Latreille, Hist. Nat. Crust. Ins., iii, p. 250, 1802 (gives *lacustris* as only

Latreille, Hist. Nat. Crust. Ins., xii, p. 271, 1804 (*lacustris* and two others).

Latreille, Genera Crust. Ins., iii, p. 133, 1807.

Fallén, Monog. Cimic. Suce., p. 114, 1807 (includes *lacustris*).

Latreille, Consid. Génl., pp. 259, 434, 1810 (names *lacustris* type, valid).

Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (for *paludum*).

Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 513, 1816.

Latreille, Fam. Nat. Règne Anim., p. 424, 1825.

Le Peletier and Serville, Encyc. Méth., x, p. 265, 1825.

Laporte, Essai Classif. Syst. Hémip., p. 23, 1832 (names two types).

Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.

Brullé, Hist. Nat. de Ins., ix, p. 297, 1835.

Spinola, Essai sur les Hémip., p. 64, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 97, 1840. [type.

Westwood, Intr. Mod. Classif. Ins., Synop., p. 119, 1840 (cites *lacustris* as

Amyot and Serville, Hémip., p. 414, 1843.

Spinola, Tavola Sinot, p. 42, 1850.

Provancher, Pet. Faune Ent. Can., iii, p. 193, 1888.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 59, 1896.

Champion, Biol. Centr. Am., Heter., ii, p. 144, 1898.

Distant, Fauna Br. Ind., Rhyn., ii, p. 176, 1904.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 490, 1908.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908.

Banks, Cat. Neare. Hemip., p. 26, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.

Hydrometra Lamarck, Syst. Anim. s. Vert., p. 295, 1801 (in part).

Walckenaer, Fauna Paris., ii, p. 350, 1802 (in part).

Fabricius, Syst. Rhyng., p. 256, 1803 (in part).

Burmeister, Handb. d. Ent., ii, p. 210, 1835.

Herrich-Schaeffer, Wanz. Ins., ix, p. 66, 1853.

Flor, Rhyn. Livl., i, p. 727, 1860.

Fieber, Europ. Hemip., p. 106, 1861.

Douglas and Scott, Brit. Hemip., p. 587, 1865.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.

Subgenus *Aquarius* Schell

Type *paludum* Schell. = *najas* De Geer

Schellenberg, Gese. Land-u. Wass. Wanz., p. 25, 1800.

Kirkaldy, Entomol., xxxiv, p. 263, 1900.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.

Hygrotrechus Stål, Of. Vet. Akad. Forh., xxv, p. 395, 1868 (type *najas*
Puton, Synop. Heter. Fr., i, p. 154, 1879. De G.).

Uhler, Stand. Nat. Hist., ii, p. 267, 1884.

1283. *Gerris remigis* Say

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl. Writ., i, p. 362.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872, *Hygrotrechus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876; iii, p. 453, 1877, *Hygro-*

Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1331, *Hygrotrechus*. [*trechus*

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 435, 1878, *Hygrotrechus*.

Uhler, Stand. Nat. Hist., ii, p. 267, fig. 322, 1884, *Hygrotrechus*.

Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Hygrotrechus*.

Gillette and Baker, Hemip. Colo., p. 60, 1895, *Hygrotrechus*.

Champion, Biol. Centr. Am., Heter., ii, p. 145, 1898.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Hygrotrechus*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 246, 1911.

†*aptera* Walker, Cat. Heter., viii, p. 165, 1873.

Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J.,
Pa., Md., N. C., Ga., La., Mich., Ill., Colo., Texas, N. Mex.,
Ariz., Calif., Ore. (Mexico, Centr. Am.)

1284. *Gerris orba* Stål

Stål, Freg. Eugen. Resa, Ins., p. 264, 1859.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914, *Hygrotrechus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech Bul., i, p. 235, 1916.

Localities: Calif. Ore., Nev.

1285. *Gerris conformis* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 435, 1878, *Hygrotrechus*.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905; xvi, p. 233, 1908; xviii, p. 31,

Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910. [1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 247, 1911.

Parshley, Psyche, xxi, p. 144, 1914.

Localities: Me., Mass., N. Y., N. J., Md., N. C. (Mexico.)

1286. *Gerris robusta* (Uhl.)

Uhler, Am. Jl. Sci., ser. 3, i, p. 105, 1871, *Hygrotrechus*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894, *Hygrotrechus*.

?Champion, Biol. Centr. Am., Heter., ii, p. 146, 1898.

Bueno, Ent. News, xxiv, p. 21, 1913.

Localities: Calif. (Mexico.)

Subgenus *Gerris* Fabr.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.

Limnotrechus Stål, Of. Vet. Akad. Forh., xxvii, p. 395, 1868.

Uhler, Stand. Nat. Hist., ii, p. 268, 1884.

Uhler, Check List, p. 26, 1886.

Puton, Cat. Hémip. Palae., p. 37, 1886.

1287. *Gerris gillettei* Leth. & Serv.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 60, 1896 (n.n. for *productus* Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 209, 1908. [Uhl.).

Bueno, Ent. News, xxiv, p. 21, 1913.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

||*productus* Uhler, Hemip. Colo., p. 61, 1895, *Limnotrechus*.

Localities: Colo., Utah, Mont., Calif.

1288. *Gerris marginatus* Say

Say, Heter. N. Harm., p. 36, 1832; Fitch reprint, p. 807; Compl. Writ., i, p. 362.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 423, 1872, *Limnotrechus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 453, 1877; iv, p. 508, 1878, *Limno-*

Uhler, Proc. Bost. Soc. Nat. Hist., ii, p. 268, 1884, *Limnotrechus*. [trechus.

Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Limnotrechus*.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905; xvi, p. 233, 1908.

Bueno, Can. Ent., xlii, p. 150, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 247, 1911.

Weiss, Can. Ent., xlvi, p. 33, 1914 (tropisms).

?†*lacustris* Kirby, Richardson's Fauna Bor. Am., iv, p. 283, 1837.

Kirby in Bethune's Reprint, p. 138.

Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., D. C., Va., N. C., Ohio, Mich., Ill., Mo., Ia., Kan., Colo., Manitoba, Calif., Ore.

1288½. *Gerris argenticollis* Parsh.

Parshley, Ent. News, xxvii, p. 103, 1916.

Localities: Mass., S. C.

1289. *Gerris buenoi* Kirk.

Kirkaldy, Ent. News, xxii, p. 246, 1911.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 248, 1911.

Parshley, Psyche, xxi, p. 144, 1914.

?†*canaliculatus* Provancher, Pet. Faune Ent. Can., iii, p. 196, 1888.

Van Duzee, Can. Ent., xlv, p. 324, 1912.

[*sulcatus* Uhl. MS] Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.

Localities: Quebec, Me., N. J., Colo., Manitoba.

1290. *Gerris canaliculatus* Say

Say, Heter. N. Harm., p. 36, 1832; Fitch reprint, p. 807; Compl. Writ., i, p.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 233, 1908. [363

Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 248, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Localities: R. I., N. Y., N. J., N. C., Ga., Fla.

Genus *Limnopus* Stål

Haplotype *rufoscutellatus* Latr.

Stål, Of. Vet. Akad. Forh., xxvii, pp. 395, 396, 1868 (as genus).

Puton, Synop. Heter. Fr., i, p. 153, 1879 (as genus).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 209, 1908 (as genus).

Bergroth, Proc. U. S. Natl. Mus., li, p. 237, 1916.

1291. *Limnopus rufoscutellatus* Latr.

- Latreille, Genera Crust. Ins., iii, p. 134, 1807.
 Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 514, 1816.
 Le Peletier and Serville, Encyc. Méth. x, p. 266, 1825.
 Laporte, Essai Classif. Syst. Hémip., p. 23, 1832.
 Schummel, Ploteris, p. 32, 1832.
 Herrich-Schaeffer, Nomen. Ent., i, p. 62, 1835. [p. 138.
 Kirby in Richardson, Fauna Bor. Am., iv, p. 282, 1837; Bethune's reprint,
 Herrich-Schaeffer, Wanz. Ins., ix, pp. 67, 69, fig. 924, 1853, *Hydrometra*.
 Flor, Rhyn. Livl., i, p. 736, 1860, *Hydrometra*.
 Fieber, Europ. Hemip., p. 106, 1861, *Hydrometra*.
 Stål, Of. Vet. Akad. Forh., xxv, p. 396, 1868.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876; iii, p. 453, 1877; iv, p.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 437, 1878. [508, 1878.
 Reuter, Revue Synon., p. 362, No. 334, 1888.
 Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 233, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Mich.,
 Ill., Wisc., Dak., Colo., Ariz., Br. Col.

Genus *Tenagonus* Stål
 Haplotype *alborittatus* Stål

- Stål, Of. Vet. Akad. Forh., x, p. 263, 1853 (*nomen nudum*).
 Stål, Of. Vet. Akad. Forh., xii, p. 45, 1855.
 Stål, Hemip. Afr., iii, p. 168, 1865.
 Bergroth, Zool. Med., Rijks Mus. Nat. Hist., Leiden, i, p. 123, 1915.
Limnometra Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 443, 1865.
 Mayr, Reise Freg. Novara, Zool., ii, p. 174, 1868.
 Champion, Biol. Centr. Am., Heter., ii, p. 150, 1898.
Limnagonus Stål, Hemip. Fabr., i, p. 132, 1868 (logotype *hyalinus*).
 Champion, Biol. Centr. Am., Heter., ii, p. 151, 1898.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906 (subgenus).
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 210, 1908.
 Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911 (subgenus).
Lamprotrechus Reuter, Of. Finska Vet. Soc. Forh., xxv, p. 40, 1882 (type
 [*leptocera* Reut.]).

1292. *Tenagonus hyalinus* (Fabr.)

- Fabricius, Syst. Rhyng., p. 258, 1803, *Hydrometra*.
 Stål, Hemip. Fabr., i, p. 133, 1868 (redescribed).
 Champion, Biol. Centr. Am., Heter., ii, p. 153, pl. 9, fig. 18, 1898.
 Bueno, Trans. Am. Ent. Soc., xxxvii, p. 245, 1911.
 Localities: Fla. (Neotropical.)

1293. *Tenagonus franciscanus* Stål

- Stål, Freg. Eugen. Resa, Ins., p. 265, 1859.
 Stål, Hemip. Fabr., i, p. 133, 1868.
 Locality: Calif.

1294. *Tenagogonus hesione* Kirk.

Kirkaldy, Entomologist, xxxv, p. 137, 1902.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Localities: Ohio, Fla.

Subfamily HALOBATINAE Bian.

Bianchi, Ann. Mus. Petersb. for 1896, p. 69.

Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 509, 1899, *Halobatitae*.Distant, Fauna Br. Ind., Rhyn., ii, p. 186, 1903, Div. *Halobatinaria*.

Bergroth, Ohio Nat., viii, p. 371, 1908.

Bueno, Trans. Am. Ent. Soc., xxxvii, pp. 244, 249, 1911.

Genus *Metrobates* Uhl.Haplotype *hesperius* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 108, 1871; xix, p. 437, 1878.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 210, 1908.

Bueno, Trans. Am. Ent. Soc., xxxvii, pp. 246, 249, 1911.

1295. *Metrobates hesperius* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 109, 1871; xix, p. 438, 1878.

Uhler, Stand. Nat. Hist., ii, p. 271, 1884.

Van Duzee, Can. Ent., xxi, p. 6, 1889.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 249, 1911.

Bueno, Can. Ent., xliii, p. 228, 1911.

Parshley, Psyche, xxi, p. 144, 1914.

Localities: Ont., Me., Mass., N. Y., Md., N. C., S. C.

Genus *Trepobates* Uhl.Orthotype *pictus* (H. S.)Uhler, Proc. Zool. Soc. Lond. for 1894, p. 213 (n.n. for *Stephania* White, with Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906. [characters).

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 212, 1908.

Bergroth, Ohio Nat., viii, p. 373, 1908.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 245, 1911. [type *pictus* H. S.).||*Stephania* White, Challenger Rept., Zool., vii, pt. 19, p. 79, 1883 (ortho-*Halobatopsis* Bianchi, Ann. Mus. Petersb., i, p. 70, 1896 (type *platensis*

[Berg.).

1296. *Trepobates pictus* (H. S.)Herrich-Schaeffer, Wanz. Ins., viii, p. 111, figs. 882, 883, 1848, *Halobates*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 437, 1878, *Halobates*.B. White, Challenger Rept., Zool., vii, pt. 19, p. 79, 1883, *Stephania*.Uhler, Stand. Nat. Hist., ii, p. 270, 1884, *Stephania*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 213.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 234, 1908.

Bergroth, Ohio Nat., viii, p. 372, 1908.

Bueno, Ohio Nat., ix, p. 389, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 251, 1911.

Parshley, Psyche, xxi, p. 144, 1914.

beginii Ashmead, Can. Ent., xxix, p. 56, 1897, *Halobatopsis* (part).

Localities: Me., Mass., N. Y., N. J., Pa., Md., Va., N. C., Fla., La., Ohio, Ill., Tenn., Ariz.

Genus **Rheumatobates** Bergr.

Haplotype *rileyi* Bergr.

Bergroth, Insect Life, iv, p. 321, 1892 (without description).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 212, 1908.

Bergroth, Ohio Nat., viii, p. 379, 1908.

Bueno, Trans. Am. Ent. Soc., xxxviii, pp. 245, 246, 1911.

Hymenobates Uhler, Proc. Zool. Soc. Lond. for 1894, p. 214.

1297. **Rheumatobates rileyi** Bergr.

Zabriski, Jl. N. Y. Micros. Soc., vii, p. 128, 1891 (as unknown water-bug).

(Anonymous), Insect Life, iv, p. 198, 1892 (description and figure without Bergroth, Insect Life, iv, p. 321, 1892 (n.n. for preceding reference). [name¹].

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 234, 1908.

Bergroth, Ohio Nat., viii, p. 381, 1908.

Bueno, Ohio Nat., ix, p. 390, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 250, 1911.

Bueno, Can. Ent., xliii, p. 228, 1911.

Bueno, Can. Ent., xliv, p. 212, 1912.

beginii Ashmead, Can. Ent., xxix, p. 56, 1897, *Halobatopsis* (part).

Localities: N. Y., N. J., D. C.

1298. **Rheumatobates tenuipes** Minert

Minert, Ent. Medd., v, p. 7, 1895.

Bergroth, Ohio Nat., viii, p. 381, 1908.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 250, 1911.

Locality: D. C.

1298½. **Rheumatobates trulliger** Bergr.

Bergroth, Bul. Brookl. Ent. Soc., x, p. 63, 1915.

Locality: Ga.

Genus **Halobates** Eschs.

Logotype *micans* Eschs.

Eschscholtz, Entomographien, p. 106, 1822; Nat. Abh. Dorpat, i, p. 162, 1823.

Laporte, Essai Classif. Syst. Hémip., p. 24, 1832 (names *micans* type).

Burmeister, Handb. d. Ent., ii, p. 208, 1835.

Spinola, Essai sur les Hémip., p. 63, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.

Ameyot and Serville, Hémip., p. 411, 1843.

Herrich-Schaeffer, Wauz. Ins., viii, p. 108, 1848.

Spinola, Tavola Sinot., p. 42, 1850.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.

B. White, Challenger Repts., Zool., vii, pt. 19, p. 23, 1883.

Uhler, Stand. Nat. Hist., ii, p. 269, 1884.

Distant, Fauna Br. Ind., Rhyu., ii, p. 186, 1903.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.

1299. *Halobates micans* Eschs.

- Eschscholtz, Entomographien, p. 107, 1822; Nat. Abh. Dorpat, i, p. 163, pl. Laporte, Essai Classif. Syst. Hémip., p. 24, 1832. [2, fig. 3, 1823.
 Burmeister, Handb. d. Ent., ii, p. 208, 1835.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 110, 1848.
 Frauenfeld, Verh. Zool.-Bot. Ges. Wien, xvii, p. 458, pl. 12, fig. 5, 1867.
 B. White, Challenger Rept., Zool., vii, pt. 19, p. 43, pl. 1, fig. 2, 1883.
 Bueno, Trans. Am. Ent. Soc., p. 251, 1911.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Localities: Fla. (Tropical oceans.)

1300. *Halobates sericeus* Eschs.

- Eschscholtz, Entomographien, p. 108, 1822; Nat. Abh. Dorpat, i, p. 163, pl. 2. Burmeister, Handb. d. Ent., ii, p. 209, 1835. [fig. 4, 1823.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
 Amyot and Serville, Hémip., p. 412, 1843.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 110, figs. 880, 881, 1848.
 B. White, Challenger Rept., Zool., vii, pt. 19, p. 47, pl. 1, fig. 7, 1883.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.

Localities: Calif. (Pacific Ocean.)

Family VELIIDAE (Am. & Serv.)

- Amyot and Serville, Hémip., pp. 1, 418, 1843, Groupe *Felides*.
 Dohrn, Cat. Hemip., p. 53, 1859, *Felidae*.
 Stål, Hemip. Afr., iii, p. 167, 1865, *Feliida*.
 Douglas and Scott, Brit. Hemip., pp. 42, 569, 1865, *Feliidae*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Feliina*.
 Uhler, Stand. Nat. Hist., ii, p. 271, 1884.
 Berg, Hemip. Argent. Add., p. 117, 1884, Subfam. *Feliina*.
 Uhler, Check List, p. 27, 1886.
 Puton, Cat. Hémip. Palae., p. 36, 1886, Tribe *Feliini*.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 55, 1896, Subfam. *Felidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 126, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 171, 1903, Subfam. *Feliinae*.
 Bergroth, Wien. Ent. Zeit., xxv, p. 7, 1906, *Feliadac*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906. [*Feliinae*.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 204, 1908, Subfam.
 Oshanin, Verz. Palae. Hemip., i, p. 487, 1908, Subfam. *Feliina*.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 66, 81, 1910, *Feliadae*.
 Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Subfam. *Feliinae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 54, 1912.
 Oshanin, Kat. Palae. Hemip., p. 87, 1912.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 52, 1916.
Hydrocressae Fieber, Europ. Hemip., pp. 23, 33, 104, 1861.

Genus *Microvelia* Westw.

Logotype *pygmaea* (Duf.)

- Westwood, Ann. Soc. Ent. Fr., iii, p. 647, 1834 (for *pygmaea* and *pulehella*).
 Brullé, Hist. Nat. des Ins., ix, p. 295, 1835.

- Blanchard, Hist. Nat. des Ins., Hémip., p. 96, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *pygmaea* Amyot and Serville, Hémip., p. 421, 1843. [type].
 Spinola, Tavola Sinot., p. 43, 1850.
 Douglas and Scott, Brit. Hemip., p. 573, 1865.
 Uhler, Stand. Nat. Hist., ii, p. 275, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 126, 1898.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 174, 1903 (names *pulchella* pseudotype).
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (cites *pygmaea* as type).
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.
 Bueno, Can. Ent., xlii, p. 1910.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.
Hydroëssa Burmeister, Handb. d. Ent., ii, p. 213, 1835 (logotype *reticulata* Flor, Rhyn. Livl., i, p. 747, 1860. [Burm. = *pygmaea* Duf.).
 Fieber, Europ. Hemip., pp. 33, 104, 1861.
 Herrich-Schaeffer, Wanz. Ins., vi, p. 37, 1842; ix, p. 78, 1853.
 Stål, Hemip. Afr., iii, p. 167, 1865. [Auct.).
Veliomorpha Carlini, Ann. Mus. Genova, xxxv, p. 120, 1895 (type *maculata*

Subgenus *Microvelia* Westw.

Bueno, Can. Ent., xlii, p. 186, 1910.

1301. *Microvelia signata* Uhl.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908.
 Localities: Calif., Colo.(?). (Mexico.)

1302. *Microvelia marginata* Uhl.

- Uhler, Proc. Zool. Soc. Lond. for 1893, p. 719; for 1894, p. 219.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Localities: N. J., Md., Fla., Calif. (Neotropical.)

1303. *Microvelia borealis* Bueno

- *Bueno in Smith's Cat. Ins. N. J., edn. 3, p. 150, 1910 (n.n. for "*pulchella* Parshley, Psyche, xxi, p. 145, 1914. [auct. Am.'")
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 59, 1916 (description).
 †*pulchella* Bueno; Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.
 Van Duzee, Check List Hemip., p. 49, 1916.
Rhagovelia sp. Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.
 Localities: N. Y., N. J.

1304. *Microvelia albonotata* Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 129, pl. 8, fig. 17, 1898.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 24, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 58, 1916.
 †*capitata* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908, *Rhagovelia*.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.
 Van Duzee, Check List Hemip., p. 49, No. 1305, 1916.
 Localities: N. Y., N. J., Md., Fla., Ill.

(1305. See no. 1304)

1306. *Microvelia robusta* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 219.

Locality: Fla.

1306¼. *Microvelia atrata* Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 60, 1916.

Locality: Ga.

1306½. *Microvelia fontinalis* Bueno.

Bueno, Bul. Brookl. Ent. Soc., xi, p. 58, 1916.

Localities: N. Y., N. J.

Subgenus *Kirkaldya* BuenoHaplotype *americana* Uhl.

Bueno, Can. Ent., xlii, p. 186, 1910.

1307. *Microvelia americana* (Uhl.)Uhler, Stand. Nat. Hist., ii, p. 274, 1884, *Hebrus*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Hebrus*.

Uhler, Hemip. Colo., p. 61, 1895 (as new).

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.

Bueno and Brimley, Ent. News, xviii, p. 438, 1907.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908, *Rhagovelia*.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.

Bueno, Can. Ent., xlii, p. 176, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.

Bueno, Bul. Brookl. Ent. Soc., xi, p. 57, 1916.

Localities: Ont., Me., N. H., N. Y., N. J., Pa., Md., D. C., Va.,
N. C., Fla., Kans., Colo., N. Mex., Calif.Genus *Macrovelia* Uhl.Haplotype *hornii* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.

1308. *Macrovelia hornii* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 289, 1894.

Gillette and Baker, Hemip. Colo., p. 62, 1895.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.

Localities: Colo., N. Mex., Ariz., Calif.

Genus *Rhagovelia* MayrLogotype *nigricans* Burm.

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 445, 1865.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 180, 1868.

Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. liv, 1877.

Champion, Biol. Centr. Am., Heter., ii, p. 131, 1898.

Kirkaldy, Bol. Mus. Zool. Anat. Torino, xiv, No. 350, p. 5, 1899.

- Kirkaldy, Entomologist, xxxiii, p. 71, 1900.
 Carpenter, Entomologist, xxxiv, p. 109, 1901.
 Kirkaldy, Entomologist xxxiv, p. 286, 1901 (names *nigricans* type).
 Kirkaldy, Entomologist, xxxiv, p. 308, 1901. (Key.)
 Distant, Fauna Br. Ind., Rhyn., iii, p. 171, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.
 Bueno, Can. Ent., xxxix, p. 61, 1907.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 205, 1908.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 55, 1916.
Boccula Stål, Hemip. Afr., iii, p. 167, 1865 (no species named, invalid).
Neorelia B. White, Jl. Linn. Soc. Lond., xiv, p. 487, 1879 (type *trillii* Wht.).
Trochopus Carpenter, Ent. Mo. Mag., xxxiv, p. 78, 1898 (type *marinus* Champion, Biol. Cent. Am., Heter., ii, p. 140, 1898. [Carp.]).

1309. *Rhagovelia obesa* Uhl.

- Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871; xix, p. 434, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 272, 1884.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 289, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.
 Bueno, Can. Ent., xxxix, p. 61, 1907.
 Bueno and Brinley, Ent. News, xviii, p. 438, 1907.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
 Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.
†collaris Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
 Localities: Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., S. C., Ohio, Mich., Tenn., Utah, Calif.

[*aeneipes* Sign. MS]

- Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. lv, 1877 (probably = *obesa* Uhl.).
 Locality: "Niagara Falls" (where *obesa* is common).

1310. *Rhagovelia distincta* Champ.

- Champion, Biol. Centr. Am., Heter., ii, p. 135, pl. 8, figs. 25, 26, 27, 1898.
 Kirkaldy, Entomologist, xxxiv, p. 309, 1901.
 [*distincta* Uhl. MS] Walker, Cat. Heter., viii, p. 161, 1873 (no description).
mexicana Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. lv, 1877 (no description).
 Locality: "Ind." (Walker).

1311. *Rhagovelia armata* (Burme.)

- Burmeister, Handb. d. Ent., ii, p. 212, 1835, *Velia*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 446, 1866.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876, *Velia*.
 Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. liv, 1877.
 Champion, Biol. Centr. Am., Heter., ii, p. 135, pl. 8, fig. 24, 1898.
 Localities: Texas. (Mexico.)

1312. *Rhagovelia plumbea* Uhl.

- Uhler, Proc. Zool. Soc. Lond. for 1894, p. 217.
 Kirkaldy, Entomologist, xxxiii, p. 72, 1900; xxxiv, p. 309, 1901.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.

marinus Carpenter, Ent. Mo. Mag., xxxiv, p. 78, 1898, *Trachopus*.

Localities: Fla. (West Indies.)

Genus **Velia** Latr.

Type *rivulorum* (Fabr.)

Latreille, Nouv. Dicty. Hist. Nat., xxiv, Tabl. Meth., pp. 163-168, 1804.

Latreille, Hist. Nat. Crust. Ins., xii, p. 269, 1804 (lists *rivulorum* and three [others]).

Latreille, Genera Crust. Ins., iii, p. 132, 1807 (lists *rivulorum* and *currens*).

Latreille, Consid. Génl., pp. 258, 434, 1810 (names *rivulorum* type).

Leach, Brewster's Edinbg. Encey., ix, p. 123, 1815 (for *rivulorum*).

Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 512, 1816.

Laporte, Essai Classif. Syst. Hémip., p. 23, 1832 (cites *rivulorum* as type).

Burmeister, Handb. d. Ent., ii, p. 211, 1835.

Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.

Brullé, Hist. Nat. des Ins., ix, pp. 291, 293, 1835.

Spinola, Essai sur les Hémip., p. 66, 1837 (1840).

Blanchard, Hist. Nat. des Ins. Hémip., p. 96, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *rivulorum* Amyot and Serville, Hémip., p. 419, 1843. [as type]).

Spinola, Tavola Sinot., p. 43, 1850.

Herrich-Schaeffer, Wanz. Ins., ix, p. 75, 1853.

Flor, Rhyn. Livl., i, p. 744, 1860.

Fieber, Europ. Hemip., pp. 33, 105, 1861.

Stål, Hemip. Afr., iii, p. 167, 1865.

Douglas and Scott, Brit. Hemip., p. 569, 1865.

Puton, Synop. Heter. Fr., ii, p. 149, 1879.

Reuter, Ent. Tidskr., iii, p. 167, 1882.

Berg, Hemip. Argent., Add., p. 117, 1884.

Uhler, Stand. Nat. Hist., ii, p. 272, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 141, 1898. [type].

Distant, Fauna Br. Ind., Rhyn., ii, p. 172, 1903 (names *currens* Fabr. pseudo-

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (cites *rivulorum* as type).

Bueno, Bul. Brookl. Ent. Soc., xi, p. 53, 1916.

1313. **Velia stagnalis** Burm.

Burmeister, Handb. d. Ent., ii, p. 212, 1835.

Champion, Biol. Centr. Am., Heter., ii, p. 142, 1898 (comparative notes).

Bueno and Brimley, Ent. News, xviii, p. 438, 1907.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 205, 1908.

Bueno, Bul. Brookl. Ent. Soc., xi, p. 54, 1916.

Localities: Pa., D. C., N. C. (West Indies.)

1314. **Velia brachialis** Stål

Stål, Rio Jan. Hemip., i, p. 82, 1860.

Champion, Biol. Centr. Am., Heter., ii, p. 141, pl. 9, figs. 6, 7, 1898.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

†*stagnalis* Uhler, Proc. Zool. Soc. Lond for 1894, p. 215.

Localities: "N. Am.," Fla., Ariz.

1315. *Velia annulipes* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 142, pl. 9, fig. 8, 1898.

Kirkaldy and Bueno, Proc. Ent., Soc. Wash., x, p. 204, 1908.

Localities: Ariz. (Neotropical.)

1315½. *Velia australis* Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 54, 1916.

Localities: Ga., Fla.

Superfamily LEPTOPODOIDEA Van D.

Van Duzee, Check List Hemip., p. 50, 1916 (n.n. for *Acanthioideae* Reut.).*Acanthioideae* Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 63, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 87, 1912.

PHALANX LEPTOPODIFORMES (Brul.)

Brullé, Hist. Nat. des Ins., ix, p. 279, 1835, *Leptopodiens* (Family).Blanchard, Hist. Nat. des Ins., Hémipt., p. 94, 1840, *Leptopodiens* (Family).

Van Duzee, Check List Hemip., p. 50, 1916.

Acanthides Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (Tribe).

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (as family).

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906 (as family).

Oshanin, Verz. Palae. Hemip., i, p. 581, 1908 (as family).

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 175, 1908 (as family).

Kirkaldy, Can. Ent., xl, p. 361, 1908 (as family).

Kirkaldy, Cat. Hemip., i, p. xxiv, 1909 (as family).

Oculatae Latreille, Fam. Nat. Règne Anim., p. 423, 1825 (as tribe).Amyot and Serville, Hémipt., pp. xlix, 401, 1843, Tribe *Oculati*.

Flor, Rhyn. Livl., i, p. 702, 1860 (as family).

Walker, Cat. Heter., viii, p. 153, 1873.

Riparii Burmeister, Handb. d. Ent., ii, p. 215, 1835 (as family).*Pelagonitae* Spinola, Tavola Sinot., pp. 27, 49, 1850 (in part; as family).*Saldidae* Dolin, Cat. Hemip., p. 51, 1859 (Family).

Puton, Synop. Hémipt. Fr., i, pp. 4, 192, 1879.

Puton, Cat. Hémipt. Palae., edn. 3, p. 41, 1886, *Saldides* (Family).

Lethierry & Severin, Cat. Génl. Hémipt., iii, p. 215, 1896 (Family).

Distant, Fauna Brit. Ind., Rhyn., ii, p. 404, 1904 (Family).

Acanthiiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 64, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.

Oshanin, Kat. Palae. Hemip., p. 87, 1912.

Family SALDIDAE (Am. & Serv.)

Amyot and Serville, Hémipt., p. xlix, 1843, Groupe *Saldides*.

Costa, Cimic. Reg. Neap., Cent., iii, p. 66, 1852.

Fieber, Europ. Hemip., pp. 25, 40, 144, 1860.

Stål, Hemip. Fabr., i, p. 90, 1868, *Saldida*.

Stål, Of. Vet. Akad. Forh., xix, p. 387, 1868.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 429, 1877, *Saldac*.Puton, Synop. Heter. Fr., i, p. 193, 1879, Tribe *Saldini*.

- Uhler, Check List, p. 27, 1886.
 Puton, Cat. Hémip. Palae., edn. 3, p. 41, 1886, Tribe *Saldini*.
 Provancher, Pet. Faune Ent. Can., iii, p. 187, 1888.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 215, 1896 (Subfamily).
 Champion, Biol. Centr. Am., Heter., ii, p. 338, 1900.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 404, 1904, Subfamily *Saldinae*.
 Banks, Cat. Neare. Hemip., p. 11, 1910.
 Van Duzee, Ent. News, xxi, p. 142, 1910; xxii, p. 432, 1911.

Subfamily SALDINAE n.n.

Acanthiinae Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 6,
 [1912.

[The following references to *Salda* and *Acanthia* really refer to this subfamily.]

Genus *Salda* Auct.

- Fabricius, Syst. Rhyng., p. 113, 1803 (indicates *zosteræ* as type).
 Fallén, Monog. Cimic. Suec., p. 28, 1807.
 Fallén, Hemip. Suec., Cimic., p. 71, 1829.
 Hahn, Wanz. Ins., ii, p. 81, 1834.
 Burmeister, Handb. d. Ent., ii, p. 215, 1835.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 60, 1835.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840.
 Anyot and Serville, Hémip., p. 404, 1843.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 128, 1853.
 Flor, Rhyn. Livl., i, p. 703, 1860.
 Fieber, Europ. Hemip., pp. 40, 144, 1860.
 Douglas and Scott, Brit. Hemip., p. 316, 1865.
 Stål, Hemip. Fabr., i, p. 90, 1868.
 Stål, Of. Vet. Akad. Forh., xix, p. 387, 1868.
 Thomson, Opusc. Ent., iv, p. 403, 1871.
 Walker, Cat. Heter., viii, p. 154, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 430, 1877.
 Berg, Hemip. Argent., p. 293, 1879.
 Douglas, Ent. Mo. Mag., xix, p. 203, 1883.
 Uhler, Check List, p. 27, 1886.
 Puton, Cat. Hemip. Palae., edn. 3, p. 41, 1886.
 Provancher, Pet. Faune Ent. Can., iii, p. 188, 1888.
 Lethierry and Severin, Cat. Génl. Hémip., iii, p. 215, 1896.
 Champion, Biol. Centr. Am., Heter., ii, p. 338, 1900.
 Distant, Fauna Br. Ind., Rhyn., ii, p. 404, 1904.
 Van Duzee, Ent. News, xxi, p. 141, 1910.
 Banks, Cat. Neare. Heter., p. 11, 1910. [to littoral forms.)
 †*Acanthia* Latreille, Précis, p. 85, 1796. (No species named, but restricted
 Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (*littoralis* and *zosteræ*
 [as examples).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 240, 1804 (includes five species).
 Latreille, Genera Crust. Ins., iii, p. 142, 1807.
 Latreille, Consid. Génl., pp. 259, 434, 1810 (names *saltatoria* type).
 Leach, Brewster's Edinbg. Eneye., ix, p. , 1815 (for *maculata*).
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 507, 1816.

- Latreille, Fam. Nat. Règne Anim., p. 423, 1825, *Acanthia*. [type].
 Laporte, Essai Classif. Syst. Hémip., p. 52, 1832 (names *saltatoria* Fabr.
 Brullé, Hist. Nat. des Ins., ix, p. 280, 1835.
 Curtis, Brit. Ent., xii, pl. 548, 1835.
 Spinola, Essai sur les Hémip., p. 76, 1837 (1840).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *saltatoria* Linn. as type).
 Stål, Enum. Hemip., iii, p. 148, 1873.
 Reuter, Ent. Mo. Mag., xvi, p. 172, 1880; xvii, p. 14, 1881.
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 3, 1895.
 Kirkaldy, Entomologist, xxxii, p. 219, 1899 (states that Latreille in [1797 named *littoralis* as type, which is incorrect).
 Bergroth, Wien. Ent. Zeit., xxv, p. 7, 1906.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906.
 Reuter, Ent. Mo. Mag., ser. 2, xix, p. 26, 1908.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 175, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 581, 1908.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 335, 1911.

Genus **Pentacora** Reut.

Orthotype *signoreti* (Guer.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 10, 1912.

1316. **Pentacora signoreti** (Guer.)

- Guerin *in* Sagra, Hist. Isl. de Cuba, Ins., p. 401, pl. 13, fig. 10, 1857, *Salda*.
 Stål, Enum. Hemip., iii, p. 148, 1873, *Acanthia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 431, 1877, *Salda*.
 Uhler, Stand. Nat. Hist., ii, p. 265, fig. 321, 1884, *Salda*.
 Champion, Biol. Centr. Am., Heter., ii, p. 339, pl. 20, fig. 2, 1900, *Salda*.
 Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906, *Salda*.
 Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
ornata (Stål), Stet. Ent. Zeit., xxiii, p. 458, 1862, *Salda*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Localities: Mass., N. J., Md., N. C., Ga., Fla., Texas, Calif.
 (Neotropical.)

1317. **Pentacora hirta** (Say)

- Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p. 149, 1873, *Acanthia*. [359, *Acanthia*.]
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 436, 1877, *Salda*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912, *Acanthia*.
 [ragata Uhler MS] Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906, [Salda.

Localities: Quebec, Conn., N. Y., N. J., Fla., Ind., Texas.

1318. **Pentacora ligata** (Say)

- Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p. 149, 1873, *Acanthia*. [359, *Acanthia*.]
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 432, 1877, *Salda*.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Salda*.

- Provancher, Pet. Faune Ent. Can., iii, p. 189, 1888, *Salda*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Salda*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912.
 Parshley, Psyche, xxi, p. 140, 1914.
variegata Provancher, Nat. Can., iv, p. 107, 1872, *Salda*.
 Localities: Quebec, Ont., Me., Mass., N. Y., Md., N. C., Ind., Ill.,
 Minn., Neb.

Genus **Chiloxanthus** Reut.

Logotype *pilosus* (Fall.)

- Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 4, 6, 1895.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 11, 1912.

1319. **Chiloxanthus stellata** (Curt.)

- Curtis, Ross' 2d Voy., App., p. lxxv, 1835, *Acanthia*.
 Curtis, Brit. Ent., xii, pl. 548, 1835, *Acanthia*.
 Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda*.
 Localities: "Arctic Am.," Pt. Barrow.

Genus **Salda** Fabr.

Orthotype *zosteræ* (Fabr.) = *littoralis* (Linn.)

- Fabricius, Syst. Rhyn., p. 113, 1803 (names *zosteræ* as type).
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 13, 1912.
Sciodopterus Amyot and Serville, Hémip., p. 404, 1843 (type *flavipes*
 [Fabr. = *littoralis* Linn.).
 Provancher, Pet. Faune Ent. Can., iii, p. 191, 1888.
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 5, 7, 1895 (as subgenus).

1320. **Salda littoralis** (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 442, 1758, *Cimex*.
 Linnaeus, Fauna Suec., edn. 2, p. 246, No. (910) 914, 1761, *Cimex*.
 De Geer, Mémoires, iii, p. 278, pl. 14 (24), figs. 17, 18, 1773, *Cimex*.
 Fabricius, Syst. Ent., p. 694, 1775, *Acanthia*.
 Retzius, Genera et Spec. Ins., p. 86, 1783, *Cimex*.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1801; xii, p. 242, 1804, *Acanthia*.
 Fallén, Monog. Cimic. Suec., p. 28, 1807, *Salda*.
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 508, 1816, *Acanthia*.
 Zetterstedt, Fauna Lapp., p. 477, 1828, *Salda*.
 Fallén, Hemip. Suec., Cimic., p. 71, 1829, *Salda*.
 Zetterstedt, Ins. Lapp., column, 267, 1840, *Salda*.
 Flor, Rhyn. Livl., i, p. 709, 1860, *Salda*.
 Fieber, Europ. Hemip., p. 147, 1861, *Salda*.
 Douglas and Scott, Brit. Hemip., p. 528, 1865, *Salda*.
 Stål, Hemip. Fabr., i, p. 90, 1868, *Salda*.
 Stål, Of. Vet. Akad. Forh., xxv, p. 387, 1868, *Salda*.
 Thomson, Opusc. Ent., iv, p. 403, 1871, *Salda*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 439, 1877, *Salda*.
 Reuter, Rev. Synon., p. 337, No. 302, 1888, *Acanthia*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda*.
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 35, 1895, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 13, 1912.

zosteræ (Fabricius), Genera Ins., p. 299, 1776, *Acanthia*.

Fabricius, Spec. Ins., ii, p. 335, 1781, *Acanthia*.

Fabricius, Ent. Syst., iv, p. 68, 1794, *Acanthia*.

Fabricius, Syst. Rhyn., p. 113, 1803.

Burmeister, Handb. d. Ent., ii, p. 216, 1835.

Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840.

Verhoeff, Ent. Nachr., xvii, p. 345, 1891 (as variety).

pellucens (Fabricius), Reise Norw., p. 234, 1779, *Acanthia*.

†*flavipes* Fieber, Wien. Ent. Monat., iii, p. 238, 1859.

Fieber, Europ. Hemip., p. 147, 1861.

Verhoeff, Ent. Nachr., xvii, p. 344, 1891.

obscura Provancher, Nat. Can., iv, p. 107, 1872.

Provancher, Pet. Faune Ent. Can., iii, p. 190, 1888.

Localities: Quebec, N. Y., Ind., Ill., Utah, Calif.

1321. *Salda coriacea* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 436, 1877.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 433, 1878.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 13, 1912.

Van Duzee, Can. Ent., xlv, p. 324, 1912.

Bueno, Ent. News, xxiv, p. 20, 1913, *Acanthia*.

Parshley, Psyche, xxi, p. 140, 1914, *Acanthia*.

bouchervillei (Provancher), Nat. Can., iv, p. 106, 1872, *Sciodopterus*.

Provancher, Pet. Faune Ent. Can., iii, p. 192, 1888, *Sciodopterus*.

Localities: Ont., Me., Mass., N. Y., N. J., Ill., Colo., Utah, Br. Col.,

Mackenzie River Region.

1322. *Salda anthracina* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 438, 1877.

Localities: N. H., N. Y., Pa.

Genus *Saldula* Van D.

Orthotype saltatoria (Linn.)

Van Duzee, Trans. San Diego Soc. Nat. Hist. Soc., ii, p. 32, 1914 (n.n. for

Van Duzee, Can. Ent., xlv, p. 387, 1914. [*Acanthia* Reut., 1912].

†*Acanthia* Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 5, 9, 1895.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, pp. 71, 72, 1912.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 8, 14, 1912.

1323. *Saldula major* (Prov.)

Provancher, Nat. Can., p. 107, 1872, *Salda*.

Provancher, Pet. Faune Ent. Can., iii, p. 190, 1888, *Salda*.

Van Duzee, Can. Ent., xlv, p. 324, 1912, *Salda*.

Parshley, Psyche, xxi, p. 140, 1914, *Acanthia*.

deplanata Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Salda*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Van Duzee, Can. Ent., xlv, p. 324, 1912, *Salda*. [*Acanthia*.]

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 14, 1912.

†*lugubris* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876, *Salda*.

Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md., Mich., Ill., Wis., Mo., Kan., Texas, N. Mex., Minn., Sask., McKenzie River Region

1324. *Saldula confluenta* (Say)

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 805; Compl. Writ., i, p.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Acanthia*. [361, *Acanthia*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

‡*confluens* Le Conte, in Say, Compl. Writ., i, p. 361, 1859, *Acanthia*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 433, 1877, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 14, 1912,

Banks, Cat. Neare. Hemip., p. 11, 1910, *Salda*. [*Acanthia*

Localities: Quebec, N. Y., N. J.

1325. *Saldula orbiculata* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 450, 1877, *Salda*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

Localities: Mass., N. Y., Pa., Ohio, Ill., Texas, Calif.

1326. *Saldula explanata* (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, 1912, *Acanthia*.

Localities: Utah, Idaho, Calif., Vanc. Isd.

1327. *Saldula dispersa* (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

Localities: Colo., Utah, Nev., Calif.

1328. *Saldula interstitialis* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 324, 1825; Compl. Writ., ii, p. 248,

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872, *Salda*. [*Acanthia*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 444, 1877, *Salda*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330, *Salda*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Salda*.

Van Duzee, Can. Ent., xxi, p. 6, 1889, *Salda*.

Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Salda*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Salda*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda*.

Gillette and Baker, Hemip. Colo., p. 62, 1895, *Salda*.

Smith, Cat. Ins. N. J., edn., 3, p. 166, 1910, *Acanthia*.

Van Duzee, Can. Ent., xlv, p. 324, 1912, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 235, 1916.

†*littoralis* (Provancher), Pet. Faune Ent. Can., iii, p. 191, 1888, *Salda*.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Fla., Ind., Ill., Mich., Mo., Dak., Neb., Colo., Texas, N. Mex., Idaho, Calif.

1329. *Saldula separata* (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 432, 1878, *Salda*.

Localities: "Canada," N. H., Mass., Pa.

1330. *Saldula reperta* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 447, 1877, *Salda*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Van Duzee, Can. Ent., xlv, p. 324, 1912, *Salda* (misspelled *repleta*).

?†*lugubris* (Provancher), Pet. Faune Ent. Can., iii, p. 191, 1888, *Salda*.

Localities: Quebec, N. H., Mass.

1331. *Saldula xanthochila* (Fieb.)

Fieber, Wien. Ent. Monat., iii, p. 234, 1859, *Salda*.

Fieber, Europ. Hemip., p. 145, 1861, *Salda*.

Puton, Synop. Heter. Fr., i, p. 202, 1879, *Salda*.

Reuter, Rev. Synon., p. 340, No. 305, 1888, *Acanthia*.

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 50, 1895, *Acanthia*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afđ. A, No. 12, p. 15, 1912, *Acanthia*.

Bueno, Ent. News, xxiv, p. 20, 1913.

Localities: N. Y., N. J., Colo., Utah, Nev., Calif. (Palaeartic.)

a. var. *limbosa* (Horv.)

Horvath, Revue d'Ent., x, p. 80, 1891, *Acanthia*.

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 50, 1895, *Acanthia*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Acanthia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.

Localities: N. J., Fla. (Palaeartic.)

1332. *Saldula pallipes* (Fabr.)

Fabricius, Ent. Syst., iv, p. 71, 1794, *Acanthia*.

Fabricius, Syst. Rhyn., p. 115, 1803, *Salda*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygaeus*.

Zetterstedt, Fauna Lapp., p. 477, 1828, *Salda*.

Fallén, Hemip. Suec., Cimic., p. 73, 1829, *Salda*.

Herrich-Schaeffer, Nomen. Ent., i, p. 60, 1835, *Salda*.

Zetterstedt, Ins. Lapp., column 267, 1840, *Salda*.

Herrich-Schaeffer, Wanz. Ins., vi, p. 43, fig. 600, 1842, *Salda*.

Costa, Cimic. Reg. Neap., Cent., ii, p. 5, pl. 2, fig. 7, 1843, *Salda* (var.)

Fieber, Wien. Ent. Monat., iii, p. 237, 1859, *Salda*.

Flor, Rhyn. Livl., i, p. 715, 1860, *Salda* (part).

Fieber, Europ. Hemip., p. 146, 1861, *Salda*.

Douglas and Scott, Brit. Hemip., p. 527, 1865, *Salda*.

Stål, Hemip. Fabr., i, p. 91, 1868, *Salda* (var. of *saltatoria*).

Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Douglas and Scott, Ent. Mo. Mag., xii, p. 30, 1875, *Salda*.

- Saunders, Synop. Brit. Hemip., p. 634, 1875, *Salda*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 446, 1877, *Salda*.
 Reuter, Rev. Synon., p. 339, No. 304, 1888, *Acanthia*.
 Reuter, Revue d'Ent., ix, p. 251, 1890, *Acanthia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda* (part).
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 22, 47, 1895, *Acanthia*.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904, *Salda*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Salda*.
 Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.
?pellucidus (Goeze), Ent. Beytr., ii, p. 264, 1778, *Cimex*.
 Foureroy, Ent. Paris., p. 196, 1785, *Cimex*.
†littoralis (Schränk), Fauna Boica, ii, p. 63, 1801, *Acanthia*.
stria (Latreille), Hist. Nat. Crust. Ins., xii, p. 243, 1804, *Acanthia*.
†saltatorius (Panzer), Fauna Ins. Germ., pl. 92, fig. 13, 1805, *Lygaeus*.
 Fallén, Monog. Cimic. Suec., p. 29, 1807, *Salda* (var.b.)
marginalis (Turton) in Linnaeus, Syst. Nat., edn. 13, Lond. reprint, i, p. [610, 1806, *Cimex*.
dimidiata (Curtis), Brit. Ent., xii, p. 548, 1835, *Acanthia* (variety).
ocellata (Costa), Cimic. Neap., Cent., ii, p. 9, pl. 2, fig. 5, 1843, *Salda*.
luctuosa (Westhoff), Jahrsb. Westf. Prov. Ver., viii, p. 65, 1880, *Salda* [(variety).
 Localities: Ont., N. Y., N. J., Md., Colo., Utah, N. Mex., Nev., Calif., Alaska. (Palaearectic.)

1333. *Saldula laticollis* (Reut.)

- Reuter, Pet. Nouv. Ent., i, p. 544, 1875, *Salda*.
 Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 61, 1878, *Acanthia*.
 Banks, Cat. Neare. Heter., p. 12, 1910, *Salda*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 71, 1912, *Acanthia*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.
 Localities: Alaska. (Siberia.)

1334. *Saldula sphacelata* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 434, 1877, *Salda*.
 Barber, Brookl. Inst. Sci. Bul., i, p. 288, 1906, *Salda*.
 Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906, *Salda*.
 Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Salda*.
 Localities: Mass., N. J., Md., Fla., Texas.

1335. *Saldula opacula* (Zett.)

- Zetterstedt, Ins. Lapp., column 268, 1840, *Salda*.
 Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda*.
 Douglas and Scott, Ent. Mo. Mag., xi, p. 9, 1874, *Salda*.
 Saunders, Synop. Brit. Hemip., p. 633, pl. 12, fig. 13, 1876, *Salda*.
 Puton, Synop. Heter. Fr., i, p. 187, 1879, *Salda*.
 Rey, Revue d'Ent., vii, p. 195, 1888, *Salda*.
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 46, 1895, *Acanthia*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

costalis (Sahlberg), Monog. Geoc. Fenn., p. 152, 1848, *Salda*.

†*marginalis* (Herrich-Schaeffer), Wanz. Ins., ix, p. 130, fig. 943, 1853, *Salda*.

Flor, Rhyn. Livl., i, p. 712, 1860, *Salda*.

Fieber, Wien. Ent. Monat., vii, p. 62, 1863, *Salda*.

Stål, Of. Vet. Akad. Forh., xxv, p. 391, 1868, *Salda*.

Localities: Mass. (Palaeartic.)

[This may not be distinct from the preceding.]

1336. *Saldula scotica* (Curt.)

Curtis, Brit. Ent., xii, pl. 548, 1835, *Acanthia*.

Stål, Of. Vet. Akad. Forh., xxv, p. 389, 1868, *Salda*.

Thomson, Opusc. Ent., iv, p. 406, 1871, *Salda*.

Puton, Synop. Heter. Fr., i, p. 196, 1879, *Salda*.

Saunders, Heter. Brit. Isds., p. 177, pl. 16, fig. 6, 1892, *Salda*.

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 12, 40, 1895, *Acanthia*.

Lethierry and Severin, Cat. Génl. Hémipt., iii, p. 223, 1896, *Salda*.

Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

†*litoralis* (Fieber), Wien. Ent. Monat., iii, p. 238, 1859, *Salda*.

Fieber, Europ. Hemip., p. 147, 1861, *Salda*.

hirsutula (Flor), Rhyn. Livl., i, p. 708, 1860, *Salda*.

Fieber, Wien. Ent. Monat., vii, p. 62, 1863, *Salda*.

†*riparia* (Douglas and Scott), Brit. Hemip., p. 530, 1865, *Salda*.

gracilipes (Jakowlev), Horae Soc. Ent. Ross., xii, p. 151, 1879, *Salda*.

Reuter, Act Soc. Sci. Fenn., xxi, p. 34, 1895, *Sciodopterus*.

Localities: "Am. Bor." (Palaeartic.)

1337. *Saldula pellita* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 433, 1877, *Salda*.

Locality: Mass.

1338. *Saldula lugubris* (Say)

Say, N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p. 360,

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*. [*Acanthia*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda*.

Locality: "Mo."

1339. *Saldula elongata* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 448, 1877, *Salda*.

Locality: Brit. Col.

1340. *Saldula luctuosa* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 263, 1858, *Salda*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 445, 1877, *Salda*.

Locality: Calif.

1341. *Saldula saltatoria* (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758, *Cimer*.

Linnaeus, Fauna Suec., edn. 2, p. 254, No. 953, 1761, *Cimer*.

Fabricius, Syst. Ent., p. 725, 1775, *Cimer*.

Fabricius, Ent. Syst., iv, p. 176, 1794, *Lygaeus*.

Wolff, Icon. Cimic., ii, p. 77, fig. 74, 1801, *Lygaeus*.

- Fabricius, Syst. Rhyn., p. 239, 1803, *Lygacus*.
 Fallén, Monog. Cimic. Suec., p. 29, 1807, *Salda*.
 Zetterstedt, Fauna Lapp., p. 479, 1828, *Salda*.
 Fallén, Hemip. Suec., Cimic., p. 73, 1829, *Salda*.
 Laporte, Essai Classif. Syst. Hémip., p. 52, 1832 (as type of *Acanthia*).
 Hahn, Wanz. Ins., ii, p. 83, fig. 167, 1834, *Salda*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 61, 1835, *Salda*.
 Brullé, Hist. Nat. des Ins., ix, p. 281, 1835, *Acanthia*.
 Spinola, Essai sur les Hémip., p. 77, 1837 (1840), *Acanthia*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840, *Salda*.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (as type of
 Fieber, Wien. Ent. Monat., iii, p. 235, 1859, *Salda*. [Acanthia).
 Flor, Rhyn. Livl., i, p. 713, 1860, *Salda*.
 Fieber, Europ. Hemip., p. 145, 1861, *Salda*.
 Douglas and Scott, Brit. Hemip., p. 522, 1865, *Salda*.
 Stål, Of. Vet. Akad. Forh., xxv, p. 390, 1868, *Salda*.
 Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda*.
 Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876, *Salda*.
 Puton, Synop. Heter. Fr., i, p. 199, 1879, *Salda*.
 Reuter, Berl. Ent. Zeit., xxv, p. 186, 1881, *Salda*.
 Reuter, Rev. Synon., p. 338, No. 303, 1888, *Acanthia*.
 Reuter, Revue d'Ent., ix, p. 251, 1890, *Acanthia*.
 Saunders, Heter. Brit. Isds., p. 180, 1892, *Salda*.
 Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 42, 1895, *Acanthia*.
 Champion, Biol. Centr. Am., Heter., ii, p. 341, 1900, *Salda*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.
alpinus (Scopoli), Ent. Carn., p. 129, 1763, *Cimex*.
†littoralis (Fabricius), Ent. Syst., iv, p. 72, 1794, *Acanthia*.
 Fabricius, Syst. Rhyn., p. 115, 1803, *Salda*.
 Burmeister, Handb. d. Ent., ii, p. 216, 1835, *Salda*.
 Costa, Cimic. Reg. Neap., Cent., ii, p. 8, 1843, *Salda*.
†maculata (Latreille), Hist. Nat. Crust. Ins., xii, p. 243, 1804, *Acanthia*.
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 508, 1816, *Acanthia*.
‡zosterac (Amyot and Serville), Hémip., p. 405, 1843, *Salda*.
 Localities: N. Y., Ill. (Palaeartic.)

Genus **Micracanthia** Reut.

Orthotype marginalis (Fall.)

- Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 8, 16, 1912.
§Micranthia Van Duzee, Check List Hemip., p. 51, 1916.

1342. **Micracanthia humilis** (Say)

- Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 805; Compl. Writ., i, p.
 Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*. [360, *Acanthia* (spelled *humilis*).
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 451, 1877, *Salda*.
 Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Salda*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 212, *Salda*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Acanthia*.
 Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 16, 1912, *Acanthia*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.

Localities: Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md., D. C.,
N. C., Ga., Fla., Ohio, Ill., Colo., Texas, Calif.

1343. *Micracanthia pusilla* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.

Localities: Calif.

Genus *Ioscytus* Reut.

Orthotype *politus* (Uhl.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 9, 19, 1912.

1344. *Ioscytus politus* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 441, 1877, *Salda*.

Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 20, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.

Localities: Ariz., Calif.

a. var. flavicosta Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 21, 1912.

Locality: Utah.

Genus *Lampracanthia* Reut.

Orthotype *crassicornis* (Uhl.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 9, 21, 1912.

1345. *Lampracanthia crassicornis* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 438, 1877, *Salda*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 21, 1912.

Localities: N. H., Sask. River.

Subfamily SALDOIDINAE Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 23, 1912.

Genus *Saldoida* Osb.

Logotype *slossoni* Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.

Horvath, Ann. Mus. Natl. Hung., ix, p. 335, 1911.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 24, 1912.

1346. *Saldoida slossoni* Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.

Slosson, Ent. News, xix, p. 424, 1908.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 24, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Locality: Fla.

1347. *Saldoida cornuta* Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.

Slosson, Ent. News, xix, p. 424, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Locality: Fla.

Superfamily NOTONECTOIDAE (Leach)

- Leach, Brewster's Edinbg. Encey., ix, p. 124, 1815, Tribe *Notonectides* (part).
 Leach, Trans. Linn. Soc. Lond., xii, p. 11, 1817, Tribe *Notonectides* (part).
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912.

PHALANX NOTONECTAEFORMES Reut.

- Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 63, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 90, 1912.

Family NOTONECTIDAE (Leach)

- Leach, Brewster's Edinbg. Encey., ix, p. 124, 1815, *Notonectides*, Fam. I.
 Billberg, Enum. Ins. Mus. Billb., p. 66, 1820, *Notonectides*.
 Latreille, Fam. Nat. Règne Anim., p. 425, 1825, *Notonectides* (part).
 Laporte, Essai Classif. Syst. Hémipt., p. 19, 1832, *Notonectites* (part).
 Burmeister, Handb. d. Ent., ii, p. 185, 1835, *Notonectici* (part).
 Brullé, Hist. Nat. des Ins., ix, p. 247, 1835, *Notonectiens* (part). [(part).
 Latreille in Cuvier, Anim. Kingd., Lond. edn., iv, p. 170, 1836, *Notonectides*
 Blanchard, Hist. Nat. des Ins., Hémipt., p. 87, 1840, *Notonectiens* (part).
 Westwood, Intr. Mod. Classif. Ins., ii, p. 458, ii, Synop., p. 119, 1840, *Notonect-*
 Amyot and Serville, Hémipt., pp. lii, 449, 1843, *Notonectides*. [*tidae* (part).
 Spinola, Tavola Sinot., pp. 27, 49, 1850, *Notonectae* (part).
 Fieber, Genera Hydroc., pp. 9, 24, 1851, *Notonectidea*.
 Dohrn, Cat. Hemip., p. 56, 1859, *Notonectidae*.
 Flor, Rhyn. Livl., i, pp. 751, 766, 1860, *Notonectica*.
 Douglas and Scott, Brit. Hemip., pp. 47, 585, 1865, *Notonectina*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 707, 1870, *Notonectina*.
 Walker, Cat. Heter., viii, p. 201, 1873, *Notonectidae*.
 Uhler, Stand. Nat. Hist., ii, p. 251, 1884, *Notonectidae*.
 Uhler, Check List, p. 28, 1886, *Notonectidae*.
 Puton, Cat. Hemip. Palae., edn. 3, p. 65, 1886, *Notonectides*.
 Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888, *Notonectides*.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 394, *Notonectidae*.
 Kirkaldy, Bol. Mus. Zool. Anat. Comp. Univ. Torino, xiv, No. 350, p. 9, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 368, 1901, *Notonectidae*. [(Key.)
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 149, 1905.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.
 Kirkaldy, Can. Ent., xl, p. 362, 1908.
 Oshanin, Verz. Palae., Hemip., i, p. 971, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 63, 80, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 27, 1911.
 Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.

Subfamily NOTONECTINAE (Fieb.)

- Fieber, Genera Hydroc., p. 24, 1851, Turma *Notonectae*.
 Fieber, Rhynchotographien, p. 45, 1851, Gruppe *Notonectae*.
 Fieber, Europ. Hemip., pp. 22, 31, 100, 1860, Fam. *Notonectidae*.
 Stål, Hemip. Afr., iii, p. 190, 1865, Fam. *Notonectidae*.
 Douglas and Scott, Brit. Hemip., p. 585, 1865, Fam. *Notonectidae*.
 Berg, Hemip. Argent., p. 196, 1879, Fam. *Notonectidae*.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 394.
 Kirkaldy, Bol. Mus. Zool. Anat. Comp. Univ. Torino, xiv, No. 347, p. 9, 1899.
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904. [(Key.)]
 Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 149, 1905.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.
 Ôshanin, Verz. Palae. Hemip., i, p. 972, 1909, *Notonectina*.
 Oshanin, Kat. Palae. Hemip., p. 91, 1912.

Genus *Notonecta* Linn.Logotype *glauca* Linn.

- Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758.
 Geoffroy, Hist. Abreg. des Ins., i, p. 476, 1762.
 Scopoli, Ent. Carn., p. 118, 1763.
 Brunnich, Entomologia, p. 58, 1764.
 Fabricius, Syst. Ent., p. 689, 1775.
 Goeze, Ent. Beytr., ii, p. 164, 1778.
 Foureroy, Ent. Paris., p. 220, 1785.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2118, 1788.
 Thunberg, Charac. Genera Ins., edn. 2, p. 33, 1791.
 Fabricius, Ent. Syst., iv, p. 57, 1794.
 Latreille, Précis, p. 87, 1797.
 Lamarek, Syst. Nat. Anim. s. Vert., p. 296, 1801 (names *glauca* type).
 Latreille, Hist. Nat. Crust. Ins., iii, p. 254, 1802.
 Walckenaer, Fauna Paris., ii, p. 331, 1802.
 Fabricius, Syst. Rhyn., p. 102, 1803.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 290, 1804.
 Latreille, Genera Crust. Ins., iii, p. 150, 1807.
 Latreille, Consid. Génl., pp. 261, 434, 1810 (cites *glauca* as type).
 Leach, Brewster's Edinbg. Encey., ix, p. 124, 1815.
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 517, 1816.
 Leach, Trans. Linn. Soc. Lond., xii, pp. 11, 12, 1817.
 Fallén, Hemip. Suec. Cimic., p. 177, 1829.
 Latreille, Cuvier, Règne Animal, edn. 2, v, p. 209, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 20, 1832 (names *glauca* type).
 Leach, Brewster's Edinbg. Encey., Am. edn., viii, p. 713, 1832.
 Herrich-Schaeffer, Nomen. Ent., i, pp. 39, 63, 1835.
 Burmeister, Handb. d. Ent., ii, p. 190, 1835.
 Brullé, Hist. Nat. des Ins., ix, pp. 252, 254, 1835.
 Spinola, Essai sur les Hémip., p. 59, 1837 (1840).
 Blanchard, Hist. des Ins., Hémip., p. 88, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., 119, 1840 (names *glauca* type).
 Amyot and Serville, Hémip., p. 450, 1843.
 Fieber, Ent. Monog., p. 16, 1844.

- Spinola, Tavola Sinot., p. 49, 1850.
 Fieber, Genera Hydroc., p. 25, 1851.
 Fieber, Rhynchotographien, p. 48, 1851.
 Flor, Rhyn. Livl., i, p. 766, 1850.
 Fieber, Europ. Hemip., pp. 31, 100, 1860.
 Stål, Hemip. Afr., iii, p. 190, 1865.
 Douglas and Scott, Brit. Hemip., p. 585, 1865.
 Puton, Synop. Heter. Fr., i, p. 216, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 252, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 395.
 Kirkaldy, Bul. Mus. Zool. Anat. Comp. Univ. Genova, xiv, No. 350, p. 9, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 368, 1901.
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 143, 149, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906 (cites *glauca* as type).
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.

1348. *Notonecta lutea* Mull.

- Müller, Zool. Dan. Prodr., p. 103, 1776.
 Weber and Mohr, Naturh. Reise d. Schwed., p. 66, 1804.
 Fallén, Hydroc. Naue. Suec., p. 6, 1814.
 Fallén, Hemip. Suec., Cimie., p. 178, 1829.
 Fieber, Rhynchotographien, p. 49, 1851.
 Flor, Rhyn. Livl., i, p. 774, 1860.
 Fieber, Europ. Hemip., p. 100, 1860.
 Sahlberg, Not. Sällsk. Fauna Fenn., Forh., xiv, p. 274, 1875.
 Puton, Synop. Heter. Fr., i, p. 218, 1879.
 Reuter, Rev. Synon., p. 374, No. 351, 1888.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 425.
 Bueno, Ent. News, xv, p. 220, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 160, 1905.
unicolor Herrich-Schaeffer, Nomen. Ent., i, p. 63, 1835.
 Herrich-Schaeffer, Wanz. Ins., viii, p. 23, 1848.

a. var. scutellaris Kirk.

- Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 425.
 Localities: Manitoba, Brit. Col. (Palaearectic.)
 [The variety not yet recorded from America.]

1349. *Notonecta irrorata* Uhl.

- Packard, Guide to Study of Ins., p. 437, 1869 (without description).
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 443, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 418.
 Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 235, 1902; xiii, pp. 46, 159, 1905.
 Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Parshley, Psyche, xxi, p. 140, 1914.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., R. I., Md.,
D. C., Fla., Ohio, Ind., Ill., Mich., Ky.

1350. *Notonecta uhleri* Kirk.

Kirkaldy, Ann. Mag. Nat. Hist., ser. 6, xx, p. 58, 1897.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 415.

Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 235, 1902; xiii, pp. 46, 157, 1905.

Bueno and Brimley, Ent. News, xviii, p. 436, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Localities: Mass., N. Y., N. J., D. C., Fla., La.

1351. *Notonecta variabilis* Fieb.

Fieber, Rhynchotographien, p. 53, 1851.

Berg, Hemip. Argent., p. 197, 1879.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 414.

Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 234, 1902.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 95, 1904.

Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 45, 155, 1905; xvi, p. 238, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Bueno and Brimley, Ent. News, xviii, p. 435, 1910.

Parshley, Psyche, xxi, p. 140, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Bueno, Psyche, xxii, p. 17, 1915.

americana Ashmead in Smith's Cat. Ins. N. J., edn. 2, p. 144, 1899.

Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md.,
D. C., N. C., Fla., Ohio, Ind., Mich., Ill., Wis., Neb., Kan.

1352. *Notonecta undulata* Say

Say, Heter. N. Harm., p. 39, 1832; Fitch reprint, p. 812; Compl. Writ., i, p. 368.

Fieber, Rhynchotographien, p. 55, 1851.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 453, 1877.

Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 442, 1878.

Uhler, Stand. Nat. Hist., ii, p. 252, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 201, 1888.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.

Gillette and Baker, Hemip. Colo., p. 63, 1895.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 410.

Kirkaldy, Entomologist, xxxii, p. 29, 1899.

Champion, Biol. Centr. Am., Heter., ii, p. 370, pl. 22, fig. 10, 1901.

Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 233, 1902; xiii, pp. 45, 152, 1905.

Bueno and Brimley, Ent. News, xviii, p. 435, 1907.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xviii, p. 33, 1910.

Severin, Can. Ent., xlii, p. 340, 1910 (food habits).

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Parshley, Psyche, xxi, p. 140, 1914.

†*americana* Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2188, 1789.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 44, fig. 902, 1853.

unicolor Fieber, Rhynchotographien, p. 53, 1851 (as variety).

scutellaris Fieber, Rhynchotographien, p. 53, 1851 (as variety).

†*variabilis* Guérin in Sagra, Hist. Isl. de Cuba, Ins., p. 176, 1857.

†*pallipes* Lethierry, Ann. Soc. Ent. Belg., xxv, p. 13, 1881.

albida Kirkaldy, 1900. (Cannot locate this reference.)

a. var. **punctata** Fieb.

Fieber, Rhynchotographien, p. 52, 1851.

Uhler, Check List, p. 28, 1886.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

b. var. **virescens** Blanch.

Blanchard in Gay's Hist. de Chili, Zool., vii, p. 233, 1852.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

c. var. **maculata** Fieb.

Fieber, Rhynchotographien, p. 53, 1851.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 410.

d. var. **charon** Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

e. var. **latona** Kirk.

Kirkaldy. (Cannot locate this.)

f. var. **selene** Kirk.

Kirkaldy, 1900. (Cannot locate this.)

Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Md., D. C., Va., N. C., Fla., La., Ohio, Ind., Mich., Ill., Minn., Ia., Neb., Kan., Mo., Tenn., Ky., Colo., Utah, Mont., Texas, N. Mex., Ariz., Calif., Ore., Idaho, Brit. Col., Vanc. Isd., Manitoba.

1353. **Notonecta howardii** Bueno

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 151, 1905.

Locality: Ariz.

1354. **Notonecta raleighi** Bueno

Bueno, Can. Ent., xxxix, p. 225, 1907.

Bueno and Brimley, Ent. News, xviii, p. 436, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Localities: N. J., Md., D. C., N. C., Ill.

1355. **Notonecta indica** Linn.

Linnaeus, Mantissa Plantarum, ii, p. 534, 1771.

Turton in Linnaeus Syst. Nat., edn. 13, Eng. transl., ii, p. 605, 1806.

Kirkaldy, Entomologist, xxxiv, p. 10, 1900.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 150, 1905.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 181, 1906.

americana Fabricius, Syst. Ent., p. 690, 1775.

Olivier, Eneye. Meth., viii, p. 389, 1801.

Uhler, Check List, p. 28, 1886.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.

- Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 408.
 Kirkaldy, Revue d'Ent., xviii, p. 94, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 370, pl. 22, fig. 11, 1901.
unifasciata Guérin, Le Moniteur for 1857, p. ?.
 Guérin, Bul. Soc. Zool. Acclim., iv, p. 581, 1858.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 426 (listed only).
dorsalis Fieber, Rhynchographien, p. 53, 1851 (as variety).
 Localities: Texas, Ariz., Nev., Calif., Ore., Utah. (Neotropical.)

1356. *Notonecta shooterii* Uhl.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 406.
 Champion, Biol. Centr. Am., Heter., ii, p. 370, 1901.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 161, 1905.
a. var. melaena Kirk.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 406.
 Localities: Calif. (Mexico, Centr. Am.)

1357. *Notonecta insulata* Kirby

- Kirby in Richardson's Fauna Bor. Am., iv, p. 285, 1837.
 Kirby in Bethune reprint, p. 140; *sanc.* Can. Ent., x, p. 216, 1878.
 Fieber, Rhynchographien, p. 55, 1851.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 339, 1876; iii, p. 453, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 442, 1878.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
 Gillette and Baker, Hemip. Colo., p. 63, 1895.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 403.
 Bueno, Jl. N. Y. Ent. Soc., x, p. 231, 1902.
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.
 Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
 Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 46, 162, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
 Parshley, Psyche, xxi, p. 140, 1914.
rugosa Fieber, Rhynchographien, p. 52, 1851.
bicolor Fieber, Rhynchographien, p. 52, 1851 (as var. of *rugosa*).
plagiata Fieber, Rhynchographien, p. 52, 1851 (as var. of *rugosa*).
cordigera Fieber, Rhynchographien, p. 52, 1851 (as var. of *rugosa*).
basalis Fieber, Rhynchographien, p. 52, 1851 (as var. of *rugosa*).
a. var. impressa Fieb.
 Fieber, Rhynchographien, p. 51, 1851.
b. var. geala Kirk.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 404.
c. var. odara Kirk.
 Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 404.
 Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., Ind.,
 Dak., Neb., Colo., Mont., Idaho, Utah, Nev., N. Mex., Ariz.,
 Calif., Ore., Vane. Isd.

1358. *Notonecta montezuma* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.

Champion, Biol. Centr. Am., Heter., ii, p. 369, pl. 22, figs. 8, 9, 1901.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 162, 1905.

Localities: Calif. (Mexico.)

1359. *Notonecta mexicana* Am. & Serv.

Amyot and Serville, Hémip., p. 453, pl. 8, fig. 7, 1843.

Fieber, Rhynchotographien, p. 51, 1851.

Herrich-Schaeffer, Wanz. Ins., ix, p. 43, fig. 903, 1853.

Uhler, Stand. Nat. Hist., ii, p. 252, 1884.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.

Gillette and Baker, Hemip. Colo., p. 63, 1895.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 401.

Champion, Biol. Centr. Am., Heter., ii, p. 368, pl. 23, figs. 6, 7, 1901.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 158, 1905.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.

klugii Fieber, Rhynchotographien, p. 50, 1851.

a. var. *ceres* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.

b. var. *hades* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.

Localities: Colo., Ariz., Calif. (Mexico.)

Genus *Buenoa* Kirk.

Orthotype *antigone* Kirk.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 120, 1904.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906 (listed only).

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 200, 1908.

Bueno, Jl. N. Y. Ent. Soc., xvii, p. 74, 1909.

1360. *Buenoa albida* (Champ.)

Champion, Biol. Centr. Am., Heter., ii, p. 373, pl. 22, fig. 14, 1901, *Anisops*.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 121, 1904.

Localities: Texas. (Mexico.)

1361. *Buenoa carinata* (Champ.)

Champion, Biol. Centr. Am., Heter., ii, p. 372, pl. 22, fig. 12, 1901, *Anisops*.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 200, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Localities: Fla., N. Mex., Calif. (Neotropical.)

1362. *Buenoa margaritacea* Bueno

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908 (n.n. for *†platygenemis* Bueno).

Bueno, Jl. N. Y. Ent. Soc., xvii, p. 76, 1909; xviii, p. 33, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

†platygenemis (Uhler), Stand. Nat. Hist., ii, p. 253, 1884, *Anisops*.

Bueno, Jl. N. Y. Ent. Soc., x, p. 236, 1902 (description).

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 123, 1904.

†*pallipes* (Kirkaldy), Entomologist, xxxii, p. 30, 1899, *Anisops*.

Anisops sp., Bueno, Jl. N. Y. Ent. Soc., xiii, p. 46, 1905.

†*albida*? Bueno and Brimley, Ent. News, xviii, p. 436, 1907.

Localities: N. Y., N. J., Ill., Fla.

1363. *Buenoa platycnemis* (Fieb.)

Fieber, Rhynchotographien, p. 61, 1851, *Anisops*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xvii, p. 77, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.

Localities: N. Y., N. J., D. C., Ill., Texas, Calif.

1364. *Buenoa elegans* (Fieb.)

Fieber, Rhynchotographien, p. 61, 1851, *Anisops*.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xvii, p. 77, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.

Bueno, Can. Ent., xlv, p. 213, 1912.

Parshley, Psyche, xxi, p. 140, 1914.

Localities: Me., N. Y., N. J.

Subfamily PLEINAE (Fieb.)

Fieber, Genera Hydroe., p. 27, 1851, Turma *Pleac*.

Fieber, Rhynchotographien, p. 45, 1851, Gruppe *Pleac* (mere mention).

Fieber, Europ. Hemip., pp. 23, 31, 1860, Fam. *Pleac*.

Stål, Hemip. Afr., iii, p. 192, 1865, Fam. *Pleidac*.

Douglas and Scott, Brit. Hemip., p. 48, 1865, Fam. *Pleidac*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 194, 1868, *Ploac*.

Berg, Hemip. Argent., p. 199, 1879, Fam. *Pleidac*.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 395, *Pleinae*.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 126, 1904.

Distant, Fauna Br. Ind., Rhyn., iii, p. 46, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 201, 1908.

Oshanin, Verz. Palae. Hemip., i, p. 971, 1909.

Oshanin, Kat. Palae. Hemip., p. 90, 1912.

Genus *Plea* Leach

Haplotype *minutissima* (Fussl.)

Leach, Trans. Linn. Soc. Lond., xii, pp. 11, 13, 1817.

Latreille, Fam. Nat. Règne Anim., p. 425, 1825.

Fallén, Hemip. Suec., Cimie., p. 173, 1829.

Stephens, Nomen. Brit. Ins., p. 66, 1829 (amended to *Ploa*).

Laporte, Essai Classif. Syst. Hémiép., p. 21, 1832 (names *minutissima* type).

Burmeister, Handb. d. Ent., ii, p. 189, 1835, *Ploa*.

Brullé, Hist. Nat. des Ins., ix, p. 255, 1835, *Ploa*.

Spinola, Essai sur les Hémiép., p. 59, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémiép., p. 89, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *minutissima*

Amyot and Serville, Hémiép., p. 449, 1843, *Ploa*.

[as type).

Fieber, Ent. Monog., p. 16, 1844, *Ploa*.

Spinola, Tavola Sinot., p. 49, 1850.

Fieber, Genera Hydroe., p. 27, 1851.

- Herrich-Schaeffer, Wanz. Ins., ix, p. 45, 1853, *Ploa*.
 Fieber, Europ. Hemip., pp. 31, 101, 1860.
 Stål, Hemip. Afr., iii, p. 192, 1865.
 Douglas and Scott, Brit. Hemip., p. 590, 1865, *Ploea*.
 Walker, Cat. Heter., viii, p. 201, 1873.
 Puton, Synop. Heter. Fr., i, p. 215, 1880.
 Champion, Biol. Centr. Am., Heter., ii, p. 375, 1901.
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 126, 1904.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 47, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 201, 1908 (catalogue).

1365. *Ploa striola* Fieb.

- Fieber, Ent. Monog., p. 18, 1844.
 Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
 Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706; for 1894, p. 224.
 Champion, Biol. Centr. Am., Heter., ii, p. 375, pl. 22, fig. 17, 1901.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 47, 1902.
 Kirkaldy, Wien. Ent. Zeit., xxiii, p. 127, 1904.
 Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.
 Bueno, Can. Ent., xlv, p. 213, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
 Localities: Mass., N. Y., N. J., Fla., Ill., Ia., Kan., Texas, Calif.
 (Neotropical.)

PHALANX NEPAEFORMES Reut.

- Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Family NAUCORIDAE (Fall.)

- Fallén, Spec. Nov. Disp. Meth., pp. 3, 15, 1814, *Naucoridea*.
 Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815; Am. edn., viii, p. 712, 1832.
 Amyot and Serville, Hémip., p. 426, 1843, Groupe *Naucorides*. [*Naucorida*.]
 Fieber, Genera Hydroc., p. 16, 1851, *Naucoridae*.
 Dohrn, Cat. Hemip., p. 54, 1859, *Naucoridae*.
 Flor, Rhyn. Livl., i, pp. 751, 752, 1860, *Naucoridea*.
 Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861, *Naucorida*.
 Stål, Hemip. Afr., iii, p. 174, 1865, *Naucorida*.
 Douglas and Scott, Brit. Hemip., p. 579, 1865, *Naucoridae*.
 Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 182, 1868, *Naucorida*.
 Stål, Enum. Hemip., v, p. 141, 1876.
 Berg, Hemip. Argent., p. 186, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
 Puton, Cat. Hémip. Palae., edn. 3, p. 64, 1886, *Naucorides*.
 Champion, Biol. Centr. Am., Heter., ii, p. 354, 1901.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 25, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 182, 1908.
 Kirkaldy, Can. Ent., xl, p. 361, 1908.

- Oshanin, Verz. Palae. Hemip., i, p. 957, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 2, pp. 63, 79, 1910.
 Banks, Cat. Nearc. Hemip., p. 10, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Subfamily NAUCORINAE (Stål)

- Stål, Enum. Hemip., v, p. 142, 1876, Div. *Naucoraria*.
 Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
 Distant, Fauna Brit. Ind., Rhyn., iii, pp. 25, 33, 1906.
 Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 55, 1909.
 Oshanin, Verz. Palae. Hemip., i, p. 959, 1909.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912, Tribe *Naucoraria*.

Genus *Pelocoris* Stål

Logotype *femoratus* P. B.

- Stål, Enum. Hemip., v, pp. 142, 144, 1876.
 Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 184, 1908.

1366. *Pelocoris femoratus* (P. B.)

- Palisot-Beauvois, Ins. Rec. Afr. Am., p. 237, pl. Hemip. 20, fig. 4, 1805,
 Stål, Enum. Hemip., v, p. 144, 1876. [Naucoris.
 Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.
 Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
 Bueno, Jl. N. Y. Ent. Soc., xi, p. 166, 1903; xiii, p. 43, 1905.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908; xviii, p. 33, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 167, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914. [coris.
pocyi (Guerin), Icon. Règne Anim., Ins., p. 352, pl. 57, fig. 5, 1844, *Nau-*
 Guerin in Sagra, Hist. de Cuba, Ins., p. 418, 1857, *Naucoris*.
 Stål, Enum. Hemip., v, p. 144, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.
 Localities: Mass., N. Y., N. J., Pa., Md., "Carolina," Fla., Ill.,
 Wis., Minn., Mich., Tenn., La.

1367. *Pelocoris biimpressus* Montd.

- Montandon, Bul. Soc. Sci. Bucarest, vii, p. 285, 1898 (as variety).
 Champion, Biol. Centr. Am., Heter., ii, p. 361, 1901 (as variety).
 Locality: "N. Am." (Stål).

1368. *Pelocoris carolinensis* Bueno

- Bueno, Can. Ent., xxxix, p. 227, 1907.
 Bueno and Brimley, Ent. News, xviii, p. 434, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

Bueno, Psyche, xxii, p. 16, 1915.

†*pocyi* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 439, 1878, *Naucoris*.

Localities: N. C., S. C.

Subfamily CRYPTOCRICINAE Montd.

Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, p. 6, 1897, *Cryptocricinae*

Montandon, Bul. Mus. Paris for 1897, p. 124.

[(synopsis).]

Champion, Biol. Centr. Am., Heter., ii, p. 354, 1900.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 48, 1909.

Genus Ambrysus Stål

Logotype *signoretii* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862.

Stål, Hemip. Afr., iii, p. 174, 1865.

Stål, Enum. Hemip., v, pp. 141, 143, 1876.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 6, 11, 1897 (synopsis).

Montandon, Bul. Mus. Paris. for 1897, pp. 129, 130.

Champion, Biol. Centr. Am., Heter., ii, p. 355, 1900.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 185, 1908.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 316, 1909 (synopsis).

1369. Ambrysus pulchellus Montd.

Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, pp. 11, 16, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 356, pl. 21, fig. 4, 1900.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 319, 1909.

a. var. pallidulus Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 189, 1910.

Localities: Texas. (Guatemala.)

1370. Ambrysus pudicus Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.

Stål, Enum. Hemip., v, p. 143, 1876.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.

Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, pp. 12, 17, 1897.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.

Localities: Wyo., Calif. (Mexico.)

1371. Ambrysus circumcinctus Montd.

Montandon, Bul. Soc. Sci. Bucarest, xix, No. 3, p. 5, 1910.

Locality: Texas.

1372. Ambrysus californicus Montd.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 12, 18, 1897.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.

Locality: Calif.

1373. Ambrysus melanopterus Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.

Stål, Enum. Hemip., v, p. 143, 1876.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 12, 19, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 357, pl. 21, fig. 7, 1900.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 186, 1908.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.

Localities: Texas, Ariz. (Mexico.)

1374. *Ambrysus mormon* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, No. 1, p. 48, 1909; p. 188, 1910.

Localities: Utah, N. Mex.

1375. *Ambrysus heidemanni* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 188, 1910.

Locality: Wyo.

1376. *Ambrysus puncticollis* Stål

Stål, Enum. Hemip., v, p. 143, 1876.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlviii, pp. 13, 20, 1897.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 322, 1909.

Localities: Texas, Ariz.

1377. *Ambrysus guttatipennis* Stål

Stål, Enum. Hemip., v, p. 143, 1876.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 13, 22, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 357, pl. 21, fig. 10, 1900.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 322, 1909.

Localities: Ariz. (Mexico.)

1378. *Ambrysus signoreti* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 423, 1872.

Stål, Enum. Hemip., v, p. 143, 1876.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331.

Uhler, Stand. Nat. Hist., ii, p. 260, fig. 319, 1884.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.

Gillette and Baker, Hemip. Colo., p. 63, 1895.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 13, 23, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 358, pl. 21, fig. 11, 1900.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.

Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 323, 1909.

Localities: Colo., N. Mex., Ariz., Calif. (Mexico.)

Family NEPIDAE (Latr.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802, *Nepariac*.

Leach, Brewster's Edinbg. Encey., ix, p. 124, 1815, *Nepida*.

Billberg, Enum. Ins. Mus. Billb., p. 66, 1820, *Nepacdes*.

Fallén, Hemip. Suec., Cimic., p. 168, 1829, Fam. *Nepidac*.

Amyot and Serville, Hémip., pp. li, 437, 1843, Groupe *Nepides*.

Fieber, Genera Hydroc., p. 22, 1851, Turma *Nepcat*.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 19, 1853, *Nepides*.

Dohrn, Cat. Hemip., p. 55, 1859, *Nepidae*.

- Flor, Rhyn. Livl., i, pp. 751, 755, 1860, *Nepina*.
 Fieber, Europ. Hemip., pp. 23, 31, 101, 1860, *Nepae*.
 Stål, Of. Vet. Akad. Forh., xviii, p. 202, 1861, *Nepida*.
 Stål, Hemip. Afr., iii, p. 185, 1865, *Nepida*.
 Douglas and Scott, Brit. Hemip., pp. 45, 581, 1865, *Nepina*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 188, 1868, *Nepida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Nepina*.
 Walker, Cat. Heter., viii, pp. 170, 185, 1873.
 Berg, Hemip. Argent., p. 194, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 352, 1901.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 17, 1906.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
 Kirkaldy, Can. Ent., xl, p. 360, 1908.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
 Oshanin, Verz. Palae. Hemip., i, p. 966, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 62, 79, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.
 Oshanin, Kat. Palae. Hemip., p. 90, 1912.
Hydrocorides Fallén, Spec. Nova Hemip., Disp. Meth., pp. 3, 14, 1814.

Genus **Nepa** Linn.

Logotype *cinerea* Linn.

- Linnaeus, Syst. Nat., edn. 10, i, p. 440, 1758.
 Scopoli, Ent. Carn., p. 119, 1763 (*cinerea* only species).
 Brunnich, Entomologia, p. 58, 1764.
 Fabricius, Syst. Ent., p. 691, 1775.
 Goeze, Ent. Beytr., ii, p. 171, 1778.
 Retzius, Genera et Spec. Ins., p. 90, 1783.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2120, 1788.
 Thunberg, Charac. Genera Ins., edn. 2, p. 33, 1791.
 Fabricius, Ent. Syst., iv, p. 61, 1794.
 Latreille, Précis, p. 87, 1797.
 Lamarek, Syst. Anim. s. Vert., p. 295, 1801 (lists *linearis* and *cinerea*).
 Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802 (*cinerea* only species).
 Walekenaer, Fauna Paris., ii, p. 334, 1802 (for *cinerea* only).
 Fabricius, Syst. Rhyn., p. 106, 1803 (no type indicated).
 Latreille, Genera Crust. Ins., iii, p. 147, 1807 (mentions *cinerea* only).
 Latreille, Consid. Génl., pp. 261, 434, 1810 (names *cinerea* type, valid).
 Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815.
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 516, 1816.
 Latreille, Fam. Nat. Règne Anim., p. 425, 1825.
 Fallén, Hemip. Suec., Cimic., pp. 168, 170, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 18, 1832 (names *cinerea* type).
 Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835.
 Burmeister, Handb. d. Ent., ii, p. 195, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 263, 1835.
 Spinola, Essai sur les Hémip., p. 52, 1837.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 90, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *cinerea*
 Amyot and Serville, Hémip., p. 437, 1843. [type].

- Herrich-Schaeffer, Wanz. Ins., viii, p. 19, 1848.
 Spinola, Tavola Sinot., p. 48, 1850.
 Fieber, Genera Hydroc., p. 23, 1851.
 Flor, Rhyn. Livl., i, p. 756, 1860.
 Fieber, Europ. Hemip., pp. 31, 101, 1860.
 Stål, Of. Vet. Akad. Forh., xviii, p. 202, 1861.
 Stål, Hemip. Afr., iii, p. 185, 1865.
 Douglas and Scott, Brit. Hemip., p. 583, 1865.
 Montandon, Bul. Soc. Sci. Bucarest, xii, p. 107, 1903.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
 ‡Hepa Geoffroy, Hist. Abreg. des Ins., i, p. 479, 1762.
 Foureroy, Ent. Paris., p. 221, 1785.

1379. **Nepa apiculata** Uhl.

- Uhler in Harris, Treat. Ins. Inj. Veg., edn. 3, p. 12, pl. 1, fig. 1, 1862.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
 Montandon, Bul. Soc. Sci. Bucarest, viii, p. 511, 1898; xii, p. 101, 1903.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
 Bueno, Jl. N. Y. Ent. Soc., xviii, p. 180, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.
 Severin, Jl. N. Y. Ent. Soc., xix, p. 99, 1911.
 Severin, Behavior Monographs, i, No. 3, 1911 (death feigning).
 ‡*cinerca* Ferrari, Ann. k. k. Nat. Hofm. Wien, iii, p. 191, 1888 (part).
 Localities: Quebec, Ont., Mass., R. I., N. Y., N. J., Pa., Md.,
 D. C., Ga., Ohio, Mich., Ill. (Mexico.)

Genus **Curicta** Stål

Haplotype *scorpio* Stål

- Stål, Of. Vet. Akad. Forh., xviii, pp. 202, 203, 1861.
 Stål, Hemip. Afr., iii, p. 185, 1865.
 Champion, Biol. Centr. Am., Heter., ii, p. 352, 1901.
 Montandon, Bul. Soc. Sci. Bucarest, xii, p. 97, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
Helotenthos Berg, Hemip. Argent., p. 194, 1879 (type *bonaerensis* Berg).
Nepoidea Montandon, Ann. Soc. Ent. Belg., xxxix, p. 476, 1895 (type
 [*volcremi* Montd.]).

1380. **Curicta howardi** Montd.

- Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 181, 1910.
 Locality: Texas.

Genus **Ranatra** Fabr.

Logotype *linearis* (Linn.)

- Fabricius, Nova Ins., Genera in Skrift. Nat. Selskabet, i, p. 227, 1790.
 Fabricius, Ent. Syst., iv, p. 64, 1794.
 Latreille, Précis, p. 87, 1797.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802 (names *linearis* as example).
 Walekenaer, Fauna Paris., ii, p. 335, 1802 (*linearis* only species).
 Fabricius, Syst. Rhyn., p. 108, 1803.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 280, 1804 (gives *linearis* as example).
 Latreille, Genera Crust. Ins., iii, p. 148, 1907 (*linearis* only species).

- Latreille, Consid. Génl., pp. 261, 434, 1810 (names *linearis* type, valid).
 Leach, Edinbg. Encyc., ix, p. 124, 1815 (for *linearis*).
 Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 515, 1816.
 Fallén, Hemip. Suec., Cimic., p. 169, 1829.
 Laporte, Essai Classif. Syst. Hémip., p. 17, 1832 (cites *linearis* as type).
 Leach in Brewster's Edinbg. Encyc., Am. edn., viii, p. 713, 1832 (for *linearis*).
 Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835.
 Burmeister, Handb. d. Ent., ii, p. 199, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 260, 1835.
 Spinola, Essai sur les Hémip., p. 52, 1837 (1840).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 90, 1840. [as type].
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *linearis*).
 Amyot and Serville, Hémip., p. 441, 1843.
 Spinola, Tavola Sinot., p. 48, 1850.
 Fieber, Genera Hydroc., p. 23, 1851.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 30, 1853.
 Flor, Rhyn. Livl., i, p. 763, 1860.
 Fieber, Europ. Hemip., pp. 32, 102, 1860.
 Stål, Of. Vet. Akad. Forh., xviii, p. 203, 1861.
 Stål, Hemip. Afr., iii, pp. 186, 189, 1865.
 Douglas and Scott, Brit. Hemip., p. 581, 1865.
 Uhler, Stand. Nat. Hist., ii, p. 254, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 198, 1888.
 Champion, Biol. Centr. Am., Heter., ii, p. 353, 1901.
 Montandon, Bul. Soc. Sci. Bucarest, xii, p. 107, 1903.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 19, 1904 (names *filiformis* pseudotype).
 Holmes, Biol. Bul., xii, p. 158, 1907 (habits).
 Oshanin, Kat. Palae. Hemip., p. 90, 1912 (cites *linearis* as type).

1381. **Ranatra fusca** P. B.

- Palisot-Beauvois, Ins. Rec. Afr. Am., p. 235, 1805.
 ?Uhler, Stand. Nat. Hist., ii, p. 254, 1884.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894.
 Kirkaldy, Can. Ent., xxxv, p. 235, 1903 (stridulation).
 Montandon, Ann. Soc. Ent. Fr., xxxvi, p. 63, 1907.
 Montandon, Bul. Soc. Sci. Bucarest, xix, p. 63, 1910.
 kirkaldyi Bueno, Can. Ent., xxxvii, p. 187, 1905.
 Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
 Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 183, 1910.
 Severin, Jl. N. Y. Ent. Soc., xix, p. 100, 1911.
 Localities: Ont. N. Y., N. J., N. C., Fla., Ill., Mich.

1382. **Ranatra nigra** H. S.

- Herrich-Schaeffer, Wanz. Ins., ix, p. 32, 1853.
 Montandon, Bul. Soc. Sci. Bucarest, xix, p. 64, 1910.
 ? *fusca* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.
 † *fusca* Kirkaldy, Can. Ent., xxxvii, p. 188, 1905.
 Bueno and Brimley, Ent. News, xviii, p. 438, 1907.
 ? Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
 Localities: N. C., Fla., La.

1383. **Ranatra americana** Montd.

- Montandon, Bul. Soc. Sci. Bucarest, xix, p. 65, 1910.

Bueno, Can. Ent., xlv, p. 213, 1912.

Bueno, Psyche, xxii, p. 16, 1915.

‡*quadrinotata* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878.

Uhler, Stand. Nat. Hist., ii, p. 255, 1884.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.

Gillette and Baker, Hemip. Colo., p. 63, 1895.

Champion, Biol. Centr. Am., Heter., ii, p. 354, 1901.

Bueno, Can. Ent., xxxvii, pp. 85 (stridulation), 188, 1905.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 153, 1906.

Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906.

Bueno, Can. Ent., xxxviii, p. 242, 1906 (life history).

Severin, Jl. N. Y. Ent. Soc., xix, p. 100, 1911.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

a. var. edentula Montd.

Montandon, Bul. Soc. Sci. Bucarest, xix, p. 66, 1910.

‡*fusca* Provancher, Pet. Faune Ent. Can., iii, p. 199, 1888.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Fla., Ill., Colo., Texas.

1384. *Ranatra brevicollis* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 184, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.

Locality: Calif.

1385. *Ranatra protensa* Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 185, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

Bueno, Psyche, xxii, p. 16, 1915.

‡*fusca* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878.

Localities: N. Y., Fla.

1386. *Ranatra annulipes* Stål

Stål, Of. Vet. Akad. Forh., xi, p. 241, 1854.

Montandon, Ann. Soc. Ent. Fr., lxxvi, p. 58, 1907.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 203, 1908.

fabricii Guerin *in* Sagra, Hist. de Cuba, vii, Ins., p. 176, 1857.

Barber, Brookl. Inst. Sci. Bul., i, p. 288, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 203, 1908.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 184, 1910.

Localities: Texas. (Neotropical.)

[*Ranatra grisea* Bueno MS]

Bueno *in* Smith's Cat. Ins. N. J., edn. 3, p. 158, 1910.

Locality: N. J.

Family **BELOSTOMIDAE** (Leach)

- Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815, *Belostomida*.
 Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 712, 1832, *Belostomida*.
 Spinola, Tavola Sinot., p. 48, 1850, Subfam. *Belostomoideae*.
 Fieber, Genera Hydroc., p. 18, 1851, Turma *Belostomae*.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 20, 1853, *Belostomides*.
 Dohrn, Cat. Hemip., p. 54, 1859, *Belostomidae*.
 Stål, Of. Vet. Akad. Forh., xviii, p. 204, 1861, *Belostomida*.
 Stål, Hemip. Afr., iii, p. 178, 1865, *Belostomida*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 183, 1868, *Belostomida*.
 Stål, Of. Vet. Akad. Forh., xvii, p. 706, 1870, *Belostomina*.
 Berg, Hemip. Argent., p. 189, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 255, 1884.
 Uhler, Check List, p. 28, 1886, *Belostomatidae*.
 Champion, Biol. Centr. Am., Heter., ii, p. 361, 1901, *Belostomidae*.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 34, 1906, *Belostomatidae*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906, *Belostomatidae*.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 187, 1908, *Belostomatidae*.
 Kirkaldy, Can. Ent., xl, p. 361, 1908, *Belostomidae*. [(catalogue).
 Oshanin, Verz. Palae. Hemip., i, p. 962, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911. [*Belostomatidae*.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912,
 Oshanin, Kat. Palae. Hemip., p. 90, 1912, *Belostomatidae*.

Genus **Benacus** Stål

Orthotype *haldemanum* Leid. = *griseus* (Say)

- Stål, Of. Vet. Akad. Forh., xix, p. 205, 1861.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 342, 358, 1863.
 Stål, Hemip. Afr., iii, p. 179, 1865.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 402, 428, 1871.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
 Bueno, Can. Ent., xxxix, p. 336, 1907.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 187, 1908 (catalogue).

1387. **Benacus griseus** (Say)

- Say, Heter. N. Harm., p. 37, 1832; Fitch reprint, p. 809; Compl. Writ., i, p.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 400, 1863, *Belostoma*. [365, *Belostoma*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 237, 1876.
 Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 256, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 197, 1888, *Belostoma*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894.
 Howard, Insect Book, p. 29, fig. 36, 1905.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
 Bueno and Brimley, Ent. News, xviii, p. 434, 1907.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.

- Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914. [*Belostoma*.]
haldemanus (Leidy), Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 66, 1847,
 Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861 (description).
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 363, 1863, *Belostoma* (descrip-
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 428, 1871. [tion].
impressus (Haldemann), Proc. Acad. Nat. Sci. Phila., vi, p. 364, 1853,
 [Belostoma].
harpar (Stål), Of. Vet. Akad. Forh., xi, p. 240, 1854, *Belostoma*.
angustatus (Guerin), Sagra, Hist. de Cuba, vii, p. 176, 1856, *Belostoma*.
?ruficeps (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma*.
?distinctum (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma*.
 Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Md., D. C.,
 W. Va., N. C., Ga., Fla., Ohio, Ill., Mich., Ky., Tenn., Minn.,
 Ia., Mo., La., Texas. (West Indies.)

Genus **Lethocerus** MayrType *cordofanus* Mayr

- Mayr, Verh. Zool.-Bot. Ges. Wien, ii, p. 15, 1852 (founded on larva).
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 363, 1863.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 188, 1908.
 Kirkaldy, Can. Ent., xl, p. 164, 1908.
 ‡*Belostoma* Latreille, Consid. Génl., pp. 260, 434, 1810 (names *grandis*
 Fallén, Hemip. Suec., Cimic., p. 171, 1829. [pseudotype].
 Laporte, Essai Classif. Syst. Hémip., p. 17, 1832 (names *grandis* pseudo-
 Burmeister, Handb. d. Ent., ii, p. 195, 1835, *Belostomum*. [type].
 Brullé, Hist. Nat. des Ins., ix, p. 266, 1835 (part).
 Spinola, Essai sur les Hémip., p. 52, 1837 (for *grandis*).
 Blanchard, Hist. Nat. des Ins., Hémip., p. 91, 1840 (part).
 Amyot and Serville, Hémip., p. 427, 1843.
 Spinola, Tavola Sinot., p. 48, 1850 (names *grandis* pseudotype).
 Fieber, Genera Hydroc., p. 21, 1851.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 33, 1853.
 Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 379, 1863.
 Mayr, Verh. Zool. Bot. Ges. Wien, xiii, p. 357, 1863.
 Stål, Hemip. Afr., iii, pp. 179, 182, 1865.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 183, 1866.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 522, 1871.
 Walker, Cat. Heter., viii, pp. 173, 174, 1873.
 Berg, Hemip. Argent., p. 193, 1879.
 (Champion, Biol. Centr. Am., Heter., ii, p. 367, 1901.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 37, 1906 (names *indicum* pseudo-
 Banks, Cat. Nearct. Hemip., p. 9, 1910. [type].
Amorgius Stål, Hemip. Afr., iii, p. 179, 1865 (nomen nudum, no species).
 Stål, Berl. Ent. Zeit., x, p. 168, 1867 (names *colossicum* type).
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
 Bueno, Can. Ent., xxxix, p. 336, 1907. [Leidy].
Montandonista Kirkaldy, Entomologist, xxxiv, p. 6, 1901 (type *americanum*

1388. **Lethocerus americanus** (Leidy)

- Leidy, Jl. Acad. Nat. Sci. Phila., vi, pp. 58, 66, 1847, *Belostoma* (as var. of
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876. [*grandis*].

- Uhler, Stand. Nat. Hist., ii, p. 256, 1884, *Belostoma*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Belostoma*.
 Gillette and Baker, Hemip. Colo., p. 63, 1895, *Belostoma*.
 Montandon, Ann. Soc. Ent. Belg., xl, p. 510, 1896, *Belostoma*.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905, *Amorgius*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
 Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
 Parshley, Psyche, xxi, p. 140, 1914.
litigiosum (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 383, 1863, *Belostoma*.
 †*griseum* (Stål), Of. Vet. Akad. Forh., xviii, p. 206, 1861, *Belostoma*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 427, 1871, *Belostoma*.
 †*grande* Dimmock, Mass. Fish and Game Comm., Rept. for 1886, p. 69.
 Localities: Quebec, Me., Mass., Conn., N. Y., N. J., Pa., Va., Ohio,
 Tenn., Ill., Mich., Minn., Colo., Texas, ?Calif.

1389. *Lethocerus obscurus* (Duf.)

- Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 383, 1863, *Belostoma*.
 Montandon, Ann. Soc. Ent. Belg., xl, p. 512, 1896, *Belostoma*.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905 (*Amorgius*), xvi, p. 237, 1908.
 Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
 Bueno, Psyche, xxii, p. 17, 1915.
 †*americanum* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878, *Belostoma*.
 Localities: Mass., Conn., N. Y., N. J., Utah.

1390. *Lethocerus angustipes* (Mayr)

- Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 427, 1871, *Belostoma*.
 Montandon, Ann. Soc. Ent. Belg., xl, p. 511, 1896, *Belostoma*.
 Champion, Biol. Centr. Am., Heter., ii, p. 368, pl. 22, fig. 3, 1901, *Belostoma*.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 188, 1908.
 Localities: Calif. (Mexico.)

1391. *Lethocerus uhleri* (Montd.)

- Montandon, Ann. Soc. Ent. Belg., xl, p. 513, 1896, *Belostoma*.
 Howard, Insect Book, pl. 29, fig. 25, 1905, *Belostoma*.
 Bueno and Brimley, Ent. News, xviii, p. 434, 1907, *Montandonista*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909, *Amorgius*.
 Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914. [*Belostoma*]
 †*americanum* Uhler, Bul. U. S. Geol. Geog. Surv., i, pl. 21, fig. 38, 1876,
 Localities: N. J., Pa., N. C., Fla., La., Wis., Kan.

1392. *Lethocerus annulipes* (H. S.)

- Herrich-Schaeffer, Wanz. Ins., viii, p. 28, figs. 803, 804, 1846, *Belostoma*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 424, 427, 1871, *Belostoma*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876, *Belostoma*.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894, *Belostoma*.
 Montandon, Ann. Soc. Ent. Belg., xl, p. 514, 1896, *Belostoma*.
 Champion, Biol. Centr. Am., Heter., ii, p. 367, pl. 22, fig. 3, 1901, *Belostoma*.
ruficeps Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma*.
signoreti Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma*.
 Localities: Texas, Colo., Calif. (Neotropical.)

Genus *Belostoma* Latr.Haplotype *testaceo-pallidum* Latr. = *bosci* Lep. & Serv.

Latreille, Genera Crust. Ins., iii, p. 144, 1807.

Leach, Brewster's Edinbg. Encyc., ix, p. , 1815 (for *testacco-pallidum*).Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 522, 1816 (*testaceo-pallidum* only).

Le Peletier and Serville, Encyc. Méth., x, p. 273, 1825 (Sect. II). [species].

Leach, Edinbg. Encyc., Am. edn., viii, p. 712, 1832 (for *testacco-pallidum*).

Montandon, Bul. Soc. Sci. Bucarest, ix, p. 270, 1900; xii, p. 113, 1903.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 190, 1908 (catalogue).

Zaitha Amyot and Serville, Hémip., p. 430, 1843 (type *stolli* A. & S. =Fieber, Genera Hydroc., p. 20, 1851. [*testacco-pallidum* Latr.).

Herrieh-Schaeffer, Wanz. Ins., ix, p. 35, 1853.

Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861.

Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 342, 352, 1863.

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 279, 386, 1863.

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 400, 402, 1871.

Stål, Hemip. Afr., iii, p. 179, 1865.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 187, 1866.

Walker, Cat. Heter., viii, p. 177, 1873.

Berg, Hemip. Argent., p. 189, 1879.

Uhler, Stand. Nat. Hist., ii, p. 257, 1884.

Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901.

Banks, Cat. Neark. Hemip., p. 9, 1910. [*testaceum* Leidy].*Perthostoma* Leidy, Jl. Acad. Nat. Sci. Phila., n.s., i, p. 59, 1847 (type1393. *Belostoma flumineum* Say

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 809; Compl. Writ., i, p.

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 388, 1863, *Zaitha*. [364.]Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 416, 1871, *Zaitha*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Zaitha*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878, *Zaitha*.Uhler, Stand. Nat. Hist., ii, p. 257, 1884, *Zaitha*.Provancher, Pet. Faune Ent. Can., iii, p. 198, 1888, *Zaitha*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Zaitha*.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.

Bueno, Can. Ent., xxxviii, p. 189, 1906 (life history).

Bueno and Brimley, Ent. News, xviii, p. 435, 1907.

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 191, 1908.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 188, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.

Severin, Jl. N. Y. Ent. Soc., xix, p. 99, 1911 (habits).

Severin, Behavior Monographs, i, No. 3, 1911 (death feigning).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

Parshley, Psyche, xxi, p. 140, 1914.

aurantiacum Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847, *Zaitha*.†*bosci* Uhler in Say, Compl. Writ., i, p. 365, 1859, *Perthostoma*.†*micrantula* Gillette and Baker, Hemip. Colo., p. 63, 1895, *Zaitha*.a. var. *immaculatum* Say

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 809; Compl. Writ., i,

Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847 (as new). [p. 365.]

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio, Ind., Ill., Mich., Wis., Tenn., La., Colo., Ariz., Manitoba.

1394. *Belostoma lutarium* (Stål)

Stål, Of. Vet. Akad. Forh., xii, p. 190, 1855, *Zaitha*.

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 416, 1871, *Zaitha*.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 187, 1910.

Bueno, Can. Ent., xlv, p. 213, 1912.

†*aurantiacum* Bueno and Brimley, Ent. News, xviii, p. 435, 1907.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 190, 1908.

Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

Localities: R. I., N. Y., N. J., N. C., Fla., La., Texas.

1395. *Belostoma boscii* Lep. & Serv.

Le Peletier and Serville, Encyc. Méth., x, p. 273, 1825.

Amyot and Serville, Hémip., p. 430, 1843, *Zaitha*.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 36, 1853, *Zaitha*.

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 354, 1863, *Zaitha*.

Montandon, Bul. Soc. Sci. Bucarest, ix, p. 271, 1900; xii, p. 117, 1903.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

anurus (Herrieh-Schaeffer), Wanz. Ins., viii, p. 26, fig. 799, 1848, *Diplo-*

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 388, 1863, *Zaitha*. [*nychus*.]

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 408, 412, 1871, *Zaitha*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 191, 1894, *Zaitha*.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223, *Zaitha*.

Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 22, fig. 1, 1901, *Zaitha*.

cupreomicans (Stål), Of. Vet. Akad. Forh., xi, p. 240, 1854, *Zaitha*.

Stål, Stet. Ent. Zeit., xxiii, p. 461, 1862, *Zaitha*.

subspinosus (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 387, 1863, *Zaitha*.

Localities: "Carolina," Fla., Ariz., Calif. (Neotropical.)

1396. *Belostoma bifoveatum* (Hald.)

Haldeman, Standbury's Exped. Gr. Salt Lake, p. 370, pl. 10, fig. 1, 1852,

[*Zaitha*.]

[May not be distinct from *boscii* Lep. & Serv.]

Locality: Texas.

1397. *Belostoma ellipticum* Latr.

Latreille in Humb. & Bompl. Obs. Zool., ii, p. 105, pl. 39, fig. 4, 1833.

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 408, 415, 1871, *Zaitha*.

Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 22, fig. 2, 1901, *Zaitha*.

Montandon, Bul. Soc. Sci. Bucarest, xii, p. 117, 1903.

Localities: Texas. (Mexico.)

1398. *Belostoma bakeri* Mont.

Montandon, Bul. Soc. Sci. Bucarest, xxii, p. 123, 1913.

Locality: Calif.

1399. *Belostoma fusciventris* (Duf.)

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 389, 1863, *Zaitha*.

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha*.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Zaitha*.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894, *Zaitha*.
 Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 21, fig. 23, 1901, *Zaitha*.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906.
 Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906, *Zaitha*.

Localities: Texas, N. Mex., Ariz., Calif. (Neotropical.)

1400. *Belostoma apache* Kirk.

- Kirkaldy, Proc. Ent. Soc. Wash., x, p. 190, 1908 (n.n. for *minor* Duf.).
 ||*minor* Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 391, 1863, *Zaitha*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha*.
 Champion, Biol. Centr. Am., Heter., ii, p. 366, pl. 21, fig. 24, 1901.
 [*Zaitha*.

a. var. cubaensis (Mayr)

- Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 417, 1871, *Zaitha*.
 Localities: Calif. (Neotropical.)

1401. *Belostoma testaceum* (Leidy)

- Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847, *Perthostoma*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 354, 1863, *Zaitha*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha*.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
 Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
reticulata (Haldeman), in Stansbury's Exped. Gr. Salt Lake, p. 370, 1852.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 354, 1863, *Zaitha*. [*Zaitha*.
 Localities: N. Y., N. J., Pa., D. C., N. C., S. C., Mich., Texas.

Genus *Abedus* Stål

Logotype *ovatus* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 461, 1862.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 379, 396, 1863.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 400, 401, 403, 1871.
 Stål, Hemip. Afr., iii, p. 180, 1865.
 Uhler, Stand. Nat. Hist., ii, p. 258, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 363, 1901.
 Montandon, Bul. Soc. Sci. Bucarest, ix, Nos. 2, 3, p. 11, 1900.
 Montandon, Bul. Soc. Sci. Bucarest, xii, pp. 110, 113, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
 Bueno, Can. Ent., xxxix, p. 336, 1907.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 189, 1908.

Subgenus *Abedus* Stål

- Stenoscytus* Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 341, 343, 1863
 [(type *americanus* Mayr = *ovatus* Stål).

1402. *Abedus ovatus* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 396, 1863.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 404, 1871.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 840, 1875.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.

- Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
 Champion, Biol. Centr. Am., Heter., ii, p. 363, pl. 21, fig. 19, 1901.
mexicanus Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 347, pl. 11, figs. 6-10,
 [1863, *Stenosecytus*.]

Localities: Texas, N. Mex., Ariz. (Mexico.)

1403. *Abedus breviceps* Stål

- Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 396, 1863.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 404, 1871.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
 Champion, Biol. Centr. Am., Heter., ii, p. 363, pl. 21, fig. 20, 1901.
 Localities: N. Mex., Ariz. (Mexico.)

Subgenus *Deinostoma* Kirk.

Haplotype *dilatata* Say

- Kirkaldy, Entomologist, xxx, p. 258, 1897 (n.n. for *Serphus* Stål).
 Champion, Biol. Centr. Am., Heter., ii, p. 362, 1901.
 Montandon, Bul. Soc. Sci. Bucarest, xii, p. 113, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
 ||*Serphus* Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 379, 395, 1863.
 Stål, Hemip. Afr., iii, p. 179, 1865.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 401, 403, 1871.

1404. *Abedus dilatatus* (Say)

- Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 810; Compl. Writ., i, p.
 Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862, *Serphus*. [366, *Belostoma*.]
 Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 395, 1863, *Serphus*.
 Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 403, 1871, *Serphus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Serphus*.
 Uhler, Stand. Nat. Hist., ii, p. 258, 1884, *Serphus*.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894, *Serphus*.
 Kirkaldy, Entomologist, xxx, p. 259, 1897.
 Champion, Biol. Centr. Am., Heter., ii, p. 362, 1901.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
 †*stollii* Herrich-Schaeffer, Wanz. Ins., ix, p. 35, fig. 898, 1853, *Zaitha*.
 Localities: Ariz., Calif. (Mexico.)

Subgenus *Pedinocoris* Mayr

Logotype *macronyx* Mayr

- Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 341, 347, 1863; xxi, pp. 401, 405,
 Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901. [1871.]
 Montandon, Bul. Soc. Sci. Bucarest, xii, p. 113, 1903.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.

1405. *Abedus macronyx* Mayr

- Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 350, pl. 11, figs. 1-4, 1863.
 Mayr, Ver. Zool.-Bot. Ges. Wien, xxi, p. 405, 1871.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.

Kirkaldy, Entomologist, xxxi, p. 3, 1898.

Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901.

Localities: Ariz., Calif. (Mexico.)

1406. *Abedus indentatus* (Hald.)

Haldeman, Proc. Acad. Nat. Sci. Phila., vi, p. 364, 1853, *Zaitha*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331.

[405, 1871.

brachyonyx Mayr. Verh. Zool.-Bot. Ges. Wien, xiii, p. 351, 1863; xxi, p.

Localities: Ariz., Calif.

Superfamily OCHTEROIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 60, 1910.

Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Litoralia Fieber, Genera Hydroc., pp. 9, 12, 1851 (sub-section).

Fieber, Europ. Hemip., pp. 22, 23, 1860.

PHALANX OCHTERIFORMES Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 61, 1910.

Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Family GELASTOCORIDAE Kirk.

Kirkaldy, Entomologist, xxx, p. 258, 1897.

Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.

Bueno, Ohio Nat., v, p. 290, 1905.

Banks, Cat. Neare. Hemip., p. 10, 1910.

Galgulides Billberg, Enum. Ins. Mus. Billb., p. 66, 1820.

Laporte, Essai Classif. Syst. Hémip., p. 15, 1852, Fam. *Galgulites*.

Burmeister, Handb. d. Ent., ii, p. 200, 1835, *Galgulini*.

Brullé, Hist. Nat. des Ins., ix, p. 272, 1835, *Galguliens*.

Spinola, Essai sur les Hémip., p. 60, 1837 (1840), *Galgulites*.

Blanchard, Hist. Nat. des Ins., Hémip., p. 92, 1840, *Galguliens*.

Westwood, Intr. Mod. Classif. Ins., ii, p. 463, 1840, *Galgulidae*.

Spinola, Tavola Sinot., pp. 27, 49, 1850, *Galgulitae*.

Herrich-Schaeffer, Wanz. Ins., ix, p. 18, 1853, *Galgulini* (part).

Dohrn, Cat. Hemip., p. 53, 1859, *Galgulidae*.

Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862, *Galgulida*.

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 181, 1868, *Galgulina*.

Walker, Cat. Heter., viii, p. 170, 1873, *Galgulidae*.

Stål, Enum. Hemip., v, p. 137, 1876, *Galgulidae*.

Berg, Hemip. Argent., p. 184, 1879, *Galgulidae*.

Uhler, Stand. Nat. Hist., ii, p. 262, 1884, *Galgulidae*.

Oshanin, Verz. Palae. Hemip., i, p. 955, 1909, *Galgulidae*.

Nerthridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.

Bueno and Brimley, Ent. News, xviii, p. 433, 1907.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 61, 79, 1910.

Bueno in Smith, Cat. Ins. N. J., edn. 3, p. 167, 1910.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.

Mononychidae Horvath, Ann. Mus., Natl. Hung., ix, p. 25, 1911.

Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Subfamily GELASTOCORINAE Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.

Bueno, Ohio Nat., v, p. 290, 1905.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.

Bueno and Brimley, Ent. News, xviii, p. 433, 1907.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.

Galguloides Fieber, Genera Hydroe., pp. 9, 13, 1851. (Family.)

Stål, Enum. Hemip., v, p. 137, 1876, *Galgulina*.

Berg, Hemip. Argent., p. 184, 1879, *Galgulina*.

Genus *Gelastocoris* Kirk.

Haplotype *oculata* Fabr.

Kirkaldy, Entomologist, xxx, p. 258, 1897 (n.n. for *Galgulus* Latr.).

Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.

Galgulus Latreille, Hist. Nat. Crust. Ins., iii, p. 253, 1901 (*oculata* only

Latreille, Hist. Nat. Crust. Ins., xii, p. 286, 1804. [species].

Latreille, Genera Crust. Ins., iii, p. 143, 1807.

Latreille, Consid. Génl., pp. 260, 434, 1810 (names *oculata* type).

Leach, Brewster's Edinburg Encyc., ix, p. 123, 1815 (for *oculatus*).

Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 509, 1816.

Latreille, Fam. Nat. Règne Anim., pp. 424, 425, 1825, *Galgule*.

Le Peletier and Serville, Encyc. Méth., x, p. 270, 1825.

Laporte, Essai Classif. Syst. Hémip., p. 16, 1832 (names *oculata* type).

Burmeister, Handb. d. Ent., ii, p. 201, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 274, 1835.

Spinola, Essai sur les Hémip., p. 62, 1837 (1840).

Herrieh-Schaeffer, Wanz. Ins., v, p. 87, 1839.

Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840.

Amyot and Serville, Hémip., p. 424, 1843.

Spinola, Tavola Sinot., p. 49, 1850.

Fieber, Genera Hydroe., p. 13, 1851.

Herrieh-Schaeffer, Wanz. Ins., ix, pp. 19, 24, 1853.

Walker, Cat. Heter., viii, p. 170, 1873.

Stål, Enum. Hemip., v, p. 137, 1876.

Berg, Hemip. Argent., p. 185, 1879.

Uhler, Stand. Nat. Hist., ii, p. 263, 1884.

1407. *Gelastocoris oculatus* (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 525, 1798, *Naucoris*.

Latreille, Hist. Nat. Crust. Ins., iii, p. 254, 1802, *Galgulus*.

Fabricius, Syst. Rhyn., p. 111, 1803, *Naucoris*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 287, 1804, *Galgulus*.

Leach, Edinbg. Encyc., ix, p. 123, 1815, *Galgulus*.

Le Peletier and Serville, Encyc. Méth., x, p. 271, 1825, *Galgulus*.

Burmeister, Handb. d. Ent., ii, p. 202, 1835, *Galgulus*.

Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840, *Galgulus*.

Amyot and Serville, Hémip., p. 424, 1843, *Galgulus*.

Stål, Hemip. Fabr., i, p. 133, 1868, *Galgulus*.

Walker, Cat. Heter., viii, p. 170, 1873, *Galgulus*.

Stål, Enum. Hemip., v, p. 137, 1876, *Galgulus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 336, 1876, *Galgulus*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, *Galgulus*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878, *Galgulus*.

Uhler, Stand. Nat. Hist., ii, p. 263, 1884, *Galgulus*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Galgulus*.

Gillette and Baker, Hemip. Colo., p. 62, 1895, *Galgulus*.

Champion, Biol. Centr. Am., Heter., ii, p. 348, 1901.

Bueno, Jl. N. Y. Ent. Soc., xiii, p. 43, 1905.

Bueno and Brimley, Ent. News, xviii, p. 433, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

?*pulcher* Stål, Of. Vet. Akad. Forh., xi, p. 239, 1854, *Galgulus*.

Localities: N. Y., N. J., Pa., Md., D. C., "Carolina," Ga., Fla.,

N. C., Ohio, Mich., Ill., Minn., Colo., Okla., Ariz.

1408. *Gelastocoris vicinus* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 349, 1901.

Localities: "Southern and Western States." (Neotropical.)

1409. *Gelastocoris variegatus* (Guer.)

Guerin, Icon. Ins., p. 352, 1844, *Galgulus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 336, 1876, *Galgulus*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331, *Galgulus*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Galgulus*.

Champion, Biol. Centr. Am., Heter., ii, p. 349, pl. 20, figs. 19, 20, 1901.

Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906.

?Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.

†*nebulosus* Stål, Enum. Hemip., v, p. 137, 1876, *Galgulus*.

Localities: Texas, N. Mex., Calif. (Neotropical.)

Subfamily MONONYCHINAE Fieb.

Fieber, Genera Hydroc., pp. 9, 12, 1851, Fam. *Mononygoidea*.

Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861, *Mononychida*.

Stål, Stet. Ent. Zeit., vii, p. 405, 1863, *Mononychida*.

Stål, Hemip. Afr., iii, p. 171, 1865, Fam. *Mononychida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Mononychina*.

Stål, Enum. Hemip., v, p. 138, 1876, *Mononychina*.

Berg, Hemip. Argent., p. 185, 1879, *Mononychina*.

Uhler, Check List., p. 27, 1886, *Mononychina*.

Champion, Biol. Centr. Am., Heter., ii, p. 350, 1901.

Distant, Fauna Br. Ind., Rhyn., iii, p. 14, 1906.

Bueno, Ohio Nat., v, p. 290, 1905.

Oshanin, Verz. Palae. Hemip., i, p. 956, 1909.

Nerthrinae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 181, 1908.

Genus *Mononyx* Lap.

Orthotype *raptoria* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 16, 1832 (names *raptoria* type).

Burmeister, Handb. d. Ent., ii, p. 201, 1835.

Brullé, Hist. Nat. des Ins., ix, pp. 274, 275, 1835 (names *raptoria* type).

Spinola, Essai sur les Hémip., p. 63, 1837 (1840).

Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840 (cites *raptoria* as type).

- Amyot and Serville, Hémip., p. 425, 1843.
 Spinola, Tavola Sinot., p. 49, 1850.
 Fieber, Genera Hydroc., p. 12, 1851.
 Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861.
 Stål, Berl. Ent. Zeit., vii, p. 405, 1863.
 Stål, Hemip. Afr., iii, p. 171, 1865.
 Stål, Enum. Hemip., v, p. 138, 1876.
 Uhler, Stand. Nat. Hist., ii, p. 264, 1884.
 Montandon, Bul. Soc. Sci. Bucarest, viii, p. 392, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 350, 1901.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 14, 1906 (cites *raptor* as type).
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 181, 1908.
Phintius Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861 (logotype *sordidus*
 Stål, Berl. Ent. Zeit., vii, p. 407, 1863. [H. S.).
 Stål, Hemip. Afr., iii, p. 172, 1865.
 Stål, Enum. Hemip., v, p. 139, 1876.

1410. **Mononyx fuscipes** Guer.

- Guerin, Rev. Zool. for 1843, p. 114.
 Stål, Berl. Ent. Zeit., vii, p. 406, 1863.
 Stål, Enum. Hemip., iii, p. 138, 1876.
 Montandon, Bul. Soc. Sci. Bucarest, viii, pp. 395, 400, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 351, pl. 20, figs. 21, 22, 1901.
badius Herrich-Schaeffer, Wanz. Ins., ix, p. 27, fig. 894, 1853.
 Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.
obscurus Stål, Of. Vet. Akad. Forh., xi, p. 239, 1854.
†raptorius Walker, Cat. Heter., viii, p. 171, 1873.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.
?stygius Uhler, Stand. Nat. Hist., ii, p. 264, 1884.
 Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894.
 Howard, Insect Book, pl. 29, fig. 16, 1905.
 Localities: Calif. (Neotropical.)

Genus **Nerthra** Say

Haplotype *stygica* Say

- Say, Heter. N. Harm., p. 37, 1832; Fitch reprint, p. 808; Compl. Writ., i, p. 364.
 Stål, Enum. Hemip., v, p. 139, 1876.
 Kirkaldy, Entomologist, xxxi, p. 2, 1898.
 Bueno, Ohio Nat., v, p. 287, 1905.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 182, 1908.

1411. **Nerthra stygica** Say

- Say, Heter. N. Harm., p. 37, 1832; Fitch reprint, p. 808; Compl. Writ., i, p. 364.
 Stål, Berl. Ent. Zeit., vii, p. 406, 1863, *Mononyx*.
 Stål, Enum. Hemip., v, p. 139, 1876.
 Uhler, Check List, p. 27, 1886, *Mononyx*.
 Bueno, Ohio Nat., v, p. 288, figs. 1, 2, 1905.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
 Localities: Ga., Fla.

Family OCHTERIDAE Kirk.

- Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 179, 1908 (catalogue).
 Kirkaldy, Can. Ent., xl, p. 361, 1908.
 Kirkaldy, Cat. Hemip., p. xxiv, 1909.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 61, 79, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 25, 1911.
 Reuter, Of. Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912.
Pelagonida Leach, Edinbg. Enyc., ix, p. 123, 1815.
 Amyot and Serville, Hémip., pp. xlix, 407, 1843, Groupe *Pelagonides*.
 Spinola, Tavola Sinot., pp. 27, 49, 1850, Fam. *Pelagonitae* (part).
 Fieber, Genera Hydroc., pp. 9, 14, 1851, *Pelagonidea*.
 Dohrn, Cat. Hemip., p. 52, 1859, *Pelagonidae*.
 Fieber, Europ. Hemip., pp. 23, 32, 103, 1860, *Pelagonidae*.
 Stål, Hemip. Afr., iii, p. 170, 1865, *Pelagonida*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 181, 1868, *Pelagonida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Pelagonina*.
 Walker, Cat. Heter., viii, p. 158, 1873, *Pelagonidae*.
 Stål, Enum. Hemip., v, p. 137, 1876, *Pelagonina*.
 Puton, Cat. Hemip. Palae., edn. 3, p. 64, 1886, *Pelagonides*.
 Champion, Biol. Centr. Am., Heter., ii, p. 344, 1900, *Pelagonidae*.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 13, 1906, *Pelagonidae*.
 Bueno, Ohio Nat., v, p. 290, 1905, *Pelagonidae*.
 Oshanin, Verz. Palae. Hemip., i, p. 955, 1909, *Pelagonina*.

Genus *Ochterus* Latr.*Haplotype marginatus* Latr.

- Latreille, Genera Crust. Ins., iii, p. 142, 1807.
 Bergroth, Bul. Soc. Ent. Fr. for 1890, pp. lxvi, exix.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 179, 1908.
 Oshanin, Kat. Palae. Hemip., p. 89, 1912.
Pelagonus Latreille, Genera Crust. Ins., iv, p. 384, 1809 (n.n. for *Ochterus*).
 Latreille, Consid. Génl., pp. 260, 434, 1810 (names *marginatus* type).
 Latreille, Fam. Nat. Règne Anim., p. 423, 1825, *Pelagone*. [type].
 Laporte, Essai Classif. Syst. Hémip., p. 13, 1832 (names *marginatus*).
 Leach, Brewster's Edinbg. Enyc., Am. edn., viii, p. 712, 1832.
 Burmeister, Handb. d. Ent., ii, p. 202, 1835.
 Brullé, Hist. Nat. des Ins., ix, p. 276, 1835.
 Spinola, Essai sur les Hemip., p. 75, 1837.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 465, 1840.
 Amyot and Serville, Hémip., p. 407, 1843.
 Spinola, Tavola Sinot., p. 49, 1850.
 Fieber, Genera Hydroc., p. 14, 1851.
 Herrich-Schaeffer, Wauz. Ins., ix, p. 23, 1853.
 Fieber, Europ. Hemip., pp. 32, 103, 1860.
 Stål, Hemip. Afr., iii, p. 170, 1865.
 Walker, Cat. Heter., viii, p. 158, 1873.

- Stål, Enum. Hemip., v, p. 137, 1876.
 Uhler, Stand. Nat. Hist., ii, p. 262, 1884.
 Champion, Biol. Centr. Am., Heter., ii, p. 344, 1901.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 13, 1906.
 Oshanin, Ver. Palae. Hemip., i, p. 955, 1908.

1412. *Ochterus americanus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876, *Pelogonus*.
 Uhler, Stand. Nat. Hist., ii, p. 262, 1884, *Pelogonus*.
 Bueno, Jl. N. Y. Ent. Soc., xiii, p. 43, 1905, *Pelogonus*.
 Bueno and Brimley, Ent. News, xviii, p. 433, 1907.
 Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906, *Pelogonus*.
 Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910.
 Barber, Can. Ent., xlv, p. 213, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
 Localities: Mass., N. Y., N. J., Pa., Md., N. C., Fla., Ill., Neb.,
 Texas, Ariz.

1413. *Ochterus banksi* Barb.

- Barber, Can. Ent., xlv, p. 214, 1913.
 Locality: Va.

1414. *Ochterus flaviclavus* Barb.

- Barber, Can. Ent., xlv, p. 215, 1913.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1913.
 Locality: Fla.

SERIES *SANDALIORRHYNCHA* Börner

- Börner, Zool. Anzeig., xvii, p. 522, 1904 (as new suborder).
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 13, 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 91, 1912.
 Bueno, Ann. Ent. Soc. Am., ix, p. 353, 1917 (as order).

Superfamily **CORIXOIDEAE** Reut.

- Reuter, Acta Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
 Oshanin, Kat. Palae. Hemip., p. 91, 1912.

Family **CORIXIDAE** Leach

- Leach, Brewster's Edinbg. Encey., ix, p. 124, 1815; Am. edn., viii, p. 713, 1832.
 Amyot and Serville, Hémip., pp. li, 444, 1843, Groupe *Corisides*. [*Corixida*.]
 Fieber, Genera Hydroc., p. 9, 1851, *Corisidæ*.
 Dohrn, Cat. Hemip., p. 55, 1859, *Corixidae*.
 Flor, Rhyn. Livl., i, pp. 752, 775, 1860, *Corisidæ*.
 Fieber, Europ. Hemip., pp. 22, 31, 89, 1860, *Corisac*.
 Douglas and Scott, Brit. Hemip., p. 49, 1865, *Corixina*.
 Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 193, 1868, *Corisida*.
 Uhler, Stand. Nat. Hist., ii, p. 250, 1884, *Corisidæ*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 65, 1886, *Corisides*.
 Champion, Biol. Centr. Am., Heter., ii, p. 375, 1901.

- Distant, Fauna Br. Ind., Rhyn., iii, p. 49, 1906.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
 Kirkaldy, Can. Ent., xl, p. 362, 1908.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.
 Kirkaldy, Cat. Hemip., i, p. xxv, 1909.
 Oshanin, Verz. Palae. Hemip., i, p. 978, 1909.
 Distant, Fauna Brit. Ind., Rhyn., v, p. 339, 1910.
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 63, 80, 1910.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 27, 1911.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.
 Oshanin, Kat. Palae. Hemip., p. 91, 1912.
Sigarida Stål, Hemip. Afr., iii, p. 193, 1865.

Genus **Tenagobia** Bergr.

Haplotype *marmorata* Bergr.

- Bergroth, Ent. Mo. Mag., xxxv, p. 282, 1899.
 Champion, Biol. Centr. Am., Heter., ii, p. 383, 1901.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.

1415. **Tenagobia socialis** (White)

- B. White, Trans. Ent. Soc. Lond. for 1879, p. 174, *Sigara*.
 Uhler, Proc. Zool. Soc. Lond. for 1894, p. 224, *Sigara*.
 Champion, Biol. Centr. Am., Heter., ii, p. 383, pl. 22, fig. 27, 1901.
 Localities: Calif. (Neotropical.)

Genus **Callicorixa** White

Logotype *praeusta* Fieb.

- B. White, Ent. Mo. Mag., x, p. 62, 1873.
 Puton, Synop. Heter. Fr., i, p. 232, 1879, Subgen. *Callicorixa*.
 Wallengren, Ent. Tidskr., xv, p. 137, 1894, Subgen. *Callicorixa*.
 Kirkaldy, Entomologist, xxxi, p. 253, 1898 (names *praeusta* type).
 Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 40, 1901.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
 Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.
 Kirkaldy, Can. Ent., xl, p. 117, 1908.

1416. **Callicorixa praeusta** (Fieb.)

- Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 521, pl. 10, figs. 14, 22, 1848, *Corisa*.
 Fieber, Spec. Generis *Corisa*, p. 28, pl. 1, No. 17, figs. 1-18, 1851, *Corisa*.
 Flor, Rhyn. Livl., i, p. 787, 1860, *Corisa*.
 Fieber, Europ. Hemip., p. 95, 1860, *Corisa*.
 White, Ent. Mo. Mag., x, p. 76, 1873.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876, *Corisa*.
 Puton, Synop. Heter. Fr., i, p. 233, 1879, *Corisa*.
 Saunders, Heter. Brit. Isds., pp. 333, 339, 1892, *Corisa*.
 Wallengren, Ent. Tidskr., xv, p. 138, 1894.
 Oshanin, Verz. Palae. Hemip., i, p. 993, 1909.
 Localities: Alaska: (Palaeartic.)

1417. **Callicorixa kollarii** (Fieb.)

- Fieber, Spec. Generis *Corisa*, p. 17, pl. 1, No. 7, 1851, *Corisa*.
 Guérin, Sagra, Hist. de Cuba, Ins., p. 177, pl. 13, fig. 14, 1857, *Corisa*.

Champion, Biol. Centr. Am., Heter., ii, p. 377, pl. 22, fig. 18, 1901, *Corixa*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.

†*eubae* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 224, *Corixa*.

Localities: "Canada," Mass., Pa., Fla., Texas, Alaska. (Palae-
arctic.)

1418. *Callicorixa geblerii* (Fieb.)

Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 522, 1848, *Corisa*.

Fieber, Spec. Generis *Corisa*, p. 29, pl. 2, fig. 10, 1851, *Corisa*.

Fieber, Europ. Hemip., p. 96, 1860, *Corisa*.

Oshanin, Verz. Palae. Hemip., i, p. 996, 1909.

Localities: Alaska. (Palaearctic.)

Genus *Ramphocorixa* Abbott

Haplotype *balanodis* Abbott

Abbott, Can. Ent., xlv, p. 120, 1912.

1419. *Ramphocorixa balanodis* Abbott

Abbott, Can. Ent., xlv, p. 118, 1912.

Abbott, Am. Nat., xlvi, p. 553, 1912 (habits).

Locality: Mo.

Genus *Arctocorixa* Wallen

Logotype *carinata* Sahlbg.

Wallengren, Ent. Tidskr., xv, pp. 133, 150, 1894.

Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 41, 1901 (as subgenus).

Kirkaldy, Entomologist, xxxix, p. 62, 1906.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 194, 1908.

Kirkaldy, Can. Ent., xl, p. 118, 1908.

Basileocorixa Kirkaldy, Entomologist, xxxi, p. 253, 1898 (n.n. for *Corixa*
[Auct., type *striata* Linn.]).

†*Corixa* Thomson, Opusc. Ent., Fasc., i, p. 27, 1869, *Corisa*.

B. White, Ent. Mo. Mag., x, p. 62, 1873.

Puton, Synop. Heter. Fr., i, p. 222, 1879, *Corisa*.

Wallengren, Ent. Tidskr., xvi, p. 141, 1894, *Corisa*.

Subgenus *Arctocorixa* Wallen

Kirkaldy, Can. Ent., xl, p. 118, 1908.

[The species in this subgenus are arranged alphabetically, as no sys-
tematic study of our forms has been published.]

1420. *Arctocorixa abdominalis* (Say)

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 811; Compl. Writ., i, p.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876.

[366, *Corixa*.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 294, 1894, *Corixa*.

Champion, Biol. Centr. Am., Heter., ii, p. 381, pl. 22, fig. 25, 1901, *Corixa*.

bimaculata (Guerin), Icon. Règne Anim., Ins., p. 354, 1844, *Corixa*.

Fieber, Spec. Generis *Corisa*, p. 42, 1851, *Corisa*.

Walker, Cat. Heter., viii, p. 199, 1873, *Corixa*.

femorata (Guerin), Bul. Soc. Zool. Aclim., iv, p. 581, 1857, *Corixa*.

Guerin, Rev. Zool. for 1857, p. 526, *Corixa*.

Localities: Texas, Calif. (Mexico.)

1421. *Arctocorixa acuminata* (Uhl.)Uhler, Trans. Md. Acad. Sci., i, p. 392, 1897, *Corixa*.

Localities: Ill., Texas.

1422. *Arctocorixa alternata* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 329, 1825; Compl. Writ., ii, p. 251,

Fieber, Spec. Generis *Corisa*, p. 43, 1851, *Corisa* (note).[*Corixa*.Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Corixa*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 446, 1878, *Corixa*.Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888, *Corisa*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Corixa*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.

Localities: Me., N. H., N. Y., Fla., Ill., Mo.

1423. *Arctocorixa bilineata* (Prov.)Provancher, Nat. Can., iv, p. 108, 1872, *Corisa*.

[changed).

bivittata Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888 (name

Locality: Quebec.

[*Arctocorixa bradleyi* Abbott MS]

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.

Locality: Ga.

1424. *Arctocorixa calva* (Say)

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 810; Compl. Writ., i, p.

Fieber, Spec. Generis *Corisa*, p. 19, 1851, *Corisa*.[366, *Corixa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 444, 1878, *Corisa*.Gillette and Baker, Hemip. Colo., p. 63, 1895, *Corisa*.

Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.

Localities: Ont., Me., Mass., Pa., Colo., Texas, Alaska.

[*Arctocorixa compressa* Abbott MS]

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.

Locality: Ga.

1425. *Arctocorixa convexa* (Fieb.)Fieber, Spec. Generis *Corisa*, p. 37, 1851, *Corisa*.

Locality: Labrador.

1426. *Arctocorixa decolor* (Uhl.)Uhler, Am. Jl. Sci., ser. 3, i, p. 106, 1871, *Corixa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iii, p. 455, 1877, *Corixa*.Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa*.

Localities: Utah, Calif.

1426½. *Arctocorixa decorata* Abbott

Abbott, Ent. News, xxvii, p. 341, 1916.

Locality: Mass.

1427. *Arctocorixa dispersa* (Uhl.)Uhler, Wheeler's Surv. 100th Merid., v, p. 841, pl. 42, fig. 7, 1875, *Corisa*.

Localities: Texas, Nev., Calif.

1427½. *Arctocorixa dubia* Abbott

Abbott, Ent. News, xxvii, p. 342, 1916.

Locality: Mass.

1428. *Arctocorixa edulis* Champ.Champion, Biol. Centr. Am., Heter., ii, p. 380, pl. 22, fig. 24, 1901, *Corixa*.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 195, 1908.

Localities: "S. St." (Mexico.)

1429. *Arctocorixa erichsonii* (Fieb.)Fieber, Spec. Generis *Corisa*, p. 35, 1851, *Corisa*.

Locality: Pa.

1430. *Arctocorixa escheri* (Heer)Heer, Insektf. Tertiär. v. Oenigen, iii, p. 87, 1853, *Corisa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa*.

Locality: Wash.

1431. *Arctocorixa expleta* (Uhl.)Uhler, Hemip. Colo., p. 63, 1895, *Corisa*.

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Localities: N. J., Colo.

1432. *Arctocorixa fossarum* (Leach)Leach, Trans. Linn. Soc. Lond., xii, p. 17, 1818, *Corixa*.Fallén, Hemip. Suec., Cimic., p. 182, 1829, *Corixa*.Herrieh-Schaeffer, Nomen. Ent., i, p. 63, 1835, *Corixa*.Zetterstedt, Ins. Lapp., column 285, 1840, *Corixa*.Fieber, Bul. Soc. Nat. Mose., xxi, pt. 2, p. 525, 1848, *Corixa*.Fieber, Spec. Generis *Corisa*, p. 32, 1851, *Corisa*.Herrieh-Schaeffer, Wanz. Ins., ix, p. 55, fig. 905, 1853, *Corixa*.Flor, Rhyn. Livl., i, p. 795, 1860, *Corisa*.Fieber, Europ. Hemip., p. 98, 1860, *Corisa*.Douglas and Scott, Brit. Hemip., p. 611, 1865, *Corisa*.Thomson, Opusc. Ent., i, p. 37, 1869, *Corisa*.Puton, Synop. Heter. Fr., i, p. 231, 1879, *Corisa*.

Wallengren, Ent. Tidskr., xv, pp. 143, 156, 1894.

Kirkaldy, Jl. Quekett Micros. Club., ser. 2, No. 48, p. 42, 1901.

Localities: Calif. (Palearctic.)

1433. *Arctocorixa germarii* (Fieb.)Fieber, Bul. Soc. Nat. Mose., xxi, pt. 2, p. 531, 1848, *Corisa*.Fieber, Spec. Generis *Corisa*, p. 38, pl. 2, No. 26, 1851, *Corisa*.Fieber, Europ. Hemip., p. 99, 1860, *Corisa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa*.Puton, Synop. Heter. Fr., i, p. 234, 1879, *Corisa*.Kirkaldy, Entomologist, xxxi, p. 251, 1898, *Corixa*.

Kirkaldy, Jl. Quekett Micros. Club., ser. 2, No. 48, p. 43, 1901.

variegata (Wallengren), Of. Vet. Akad. Forh., xi, p. 148, 1854, *Corisa*.Wallengren, Ent. Tidskr., xv, p. 159, 1894, *Corisa* subgen. *Arctocorisa*.*intricata* (Douglas and Scott), Ent. Mo. Mag., v, p. 295, 1869, *Corisa*.B. White, Ent. Mo. Mag., x, p. 77, 1873, *Oreïnocorixa*.

Localities: Alaska. (Palearctic.)

1434. *Arctocorixa harrisii* (Uhl.)Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 444, 1878, *Corisa*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Corisa*.

Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.

Localities: Ont., Me., N. Y.

1435. *Arctocorixa hydatotrepes* Kirk.

Kirkaldy, Can. Ent., xl, p. 119, 1908.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.

Localities: N. C., Ga.

1436. *Arctocorixa inscripta* (Uhl.)Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 294, 1894, *Corisa*.Champion, Biol. Centr. Am., Heter., ii, p. 376, 1901, *Corisa*.

Localities: Texas, Colo., N. Mex., Ariz., Calif. (Mexico.)

1437. *Arctocorixa interrupta* (Say)Say, Jl. Acad. Nat. Sci. Phila., iv, p. 328, 1825; Compl. Writ., ii, p. 250,
[*Corisa*.]Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iii, p. 454, 1877, *Corisa*.Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Corisa*.Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878, *Corisa*.Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 445, 1878, *Corisa*.Uhler, Stand. Nat. Hist., ii, p. 250, 1884, *Corisa*.Champion, Biol. Centr. Am., Heter., ii, p. 376, 1901, *Corisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.

Abbott, Wash. Univ. Studies, i, p. 10, 1913.

Parshley, Psyche, xxi, p. 140, 1914.

?interrupta (Fieber), Spec. Generis *Corisa*, p. 27, 1851, *Corisa*. (May not
[belong here.]Localities: Me., Mass., N. Y., Md., Ill., Minn., Mo., Mont., Colo.,
N. Mex., Calif. (Mexico.)1438. *Arctocorixa kennicottii* (Uhl.)Uhler, Trans. Md. Acad. Sci., i, p. 393, 1897, *Corisa*.Parshley, Psyche, xxi, p. 140, 1914, *Corisa*.

Localities: Me., Ill.

1439. *Arctocorixa kirbyi* (Fieb.)Fieber, Spec. Generis *Corisa*, p. 43, 1851, *Corisa*.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908.

?carinata (Kirby) in Richardson, Fauna Bor. Am., iv, p. 284, 1837, *Corisa*.Kirby in Bethune's reprint, p. 139, *Corisa*.

Locality: "Canada."

1440. *Arctocorixa laevigata* (Uhl.)Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa*.Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 295, 1894, *Corisa*.

Localities: Utah, Nevada, Calif., Wash., Ore.

1441. *Arctocorixa lateralis* (Leach)Leach, Trans. Linn. Soc. Lond., xii, p. 17, 1818, *Corisa*.

Kirkaldy, Entomologist, xxxiii, p. 10, 1900.

Kirkaldy, Jl. Quekett Micors. Club., ser. 2, No. 48, p. 44, fig. 30, 1910.

hieroglyphica (Dufour), Rech. Anat., p. 214, figs. 85-87, 1833, *Corixa*.

Burmeister, Handb. d. Ent., ii, p. 188, 1835, *Corixa*.

Spinola, Essai sur les Hémip., p. 56, 1837, *Corixa*.

Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 517, 1848, *Corixa*.

Fieber, Spec. Generis *Corisa*, p. 22, pl. 1, No. 20, 1851, *Corisa*.

Fieber, Europ. Hemip., p. 93, 1860, *Corisa*.

Douglas and Scott, Brit. Hemip., p. 598, 1865, *Corisa*.

Thomson, Opusc. Ent., i, p. 35, 1869, *Corisa*.

B. White, Ent. Mo. Mag., x, p. 76, 1873, *Corixa*.

Saunders, Heter. Brit. Isds., pp. 331, 334, 1892, *Corixa*.

Wallengren, Ent. Tidskr., x, pp. 142, 144, 1894.

Kirkaldy, Entomologist, xxxi, pt. 2, 1898, *Corixa*.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 49, fig. 29, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 982, 1908, *Corixa*.

fieberi (Wallengren), Of. Vet. Akad. Forh., xi, p. 143, 1854, *Corisa*.

vaga (Wallengren), Of. Vet. Akad. Forh., xi, p. 143, 1854, *Corisa*.

Localities: Pa. (Palaeretic.)

1442. *Arctocorixa lineata* (Forst.)

Forster, Nov. Spec. Ins., p. 70, 1771, *Notonecta*.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908 (catalogue).

noveboracensis Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2119,

[1788, *Notonecta* (unnecessary n.n. for *lineata* Forst.)

Turton, Linnaeus, Syst. Nat., edn. 13, Eng. transl., ii, p. 605, 1806,

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908. [*Notonecta*.

Locality: N. Y.

1442½. *Arctocorixa lucida* Abbott

Abbott, Ent. News, xxvii, p. 341, 1916.

Localities: Mass., R. I., Conn.

1443. *Arctocorixa mercenaria* (Say)

Say, Heter. N. Harm., p. 39, 1832; Fitch reprint, p. 811; Compl. Writ., i, p.

Guerin, Bul. Soc. Zool. Acclim., iv, p. 581, 1857, *Corixa*.

[367, *Corixa*.

Guerin, Rev. Zool. for 1857, p. 526, *Corixa*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa*.

Kirkaldy, Ent. Mo. Mag., xxxiv, p. 173, 1898, *Corixa*.

Kirkaldy, Revue d'Ent., xviii, p. 95, 1899.

Champion, Biol. Centr. Am., Heter., ii, p. 379, pl. 22, fig. 23, 1901, *Corixa*.

Localities: N. Mex., Calif. (Neotropical.)

1443½. *Arctocorixa modesta* Abbott

Abbott, Ent. News, xxvii, p. 343, 1916.

Localities: Md., D. C., Va.

1444. *Arctocorixa nitida* (Fieb.)

Fieber, Spec. Generis *Corisa*, p. 28, pl. 2, No. 8, 1851, *Corisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.

Parshley, Psyche, xxi, p. 140, 1914.

a. var. *minor* Abbott.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.

Localities: Me., Md., N. C., Ga.

1444¹/₄. *Arctocorixa ornata* Abbott

Abbott, Ent. News, xxvii, p. 341, 1916.

Localities: Me., Mass., Conn., N. Y.

1444¹/₂. *Arctocorixa parshleyi* Abbott

Abbott, Ent. News, xxvii, p. 342, 1916.

Localities: Me., N. Y.

1445. *Arctocorixa pectenata* Abbott

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.

Locality: Ga.

1446. *Arctocorixa planifrons* (Kirby)Kirby in Richardson, Fauna Bor. Am., iv, p. 284, 1857, *Corixa*.Kirby in Bethune's reprint, p. 139, *Corixa*.

Locality: "Canada."

1447. *Arctocorixa reticulata* Guer.Guerin in Sagra, Hist. de Cuba, Ins., p. 423, 1857, *Corisa*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.

Localities: Fla. (West Indies.)

[*Arctocorixa scabra* Abbott MS]

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.

Locality: Ga.

1447¹/₂. *Arctocorixa seriata* Abbott

Abbott, Ent. News, xxvii, p. 342, 1916.

Localities: Me., N. H., Mass., R. I., Conn.

1448. *Arctocorixa serrulata* (Uhl.)Uhler, Trans. Md. Acad. Sci., i, p. 391, 1897, *Corixa*.Champion, Biol. Centr. Am., Heter., ii, p. 381, 1901, *Corixa* (noticed).?Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910, *Corixa*.

Localities: Ariz., Calif. (Mexico.)

1449. *Arctocorixa signata* (Fieb.)Fieber, Spec. Generis *Corisa*, p. 21, 1851, *Corisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.

Localities: Pa., Ill., Ga.

1450. *Arctocorixa stagnalis* (Leach)Leach, Trans. Linn. Soc. Lond., xii, p. 16, 1818, *Corisa*.

Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, j. 42, pl. 4, fig. 21, 1901.

limitata (Fieber), Bul. Soc. Nat. Mose., xxi, pt. 2, p. 528, 1848, *Corisa*.Fieber, Spec. Generis *Corisa*, p. 35, pl. 2, No. 20, 1851, *Corisa*.Fieber, Europ. Hemip., p. 95, 1860, *Corisa*.B. White, Ent. Mo. Mag., x, p. 77, 1873, *Corixa*.Puton, Synop. Heter. Fr., i, p. 229, 1879, *Corisa*.Saunders, Heter. Brit. Isds., pp. 332, 336, pl. 22, fig. 4, 1892, *Corixa*.

Wallengren, Ent. Tidskr., x, pp. 142, 152, 1894.

Oshanin, Verz. Palae. Hemip., i, p. 984, 1908, *Corixa*.

Oshanin, Kat. Palae. Hemip., p. 92, 1912.

†*nigrolineata* (Thomson), Opuse. Ent., i, p. 36, 1869, *Corisa*.*thomsoni* Puton, Cat. Hemip. Palae., edn. 3, p. 65, 1886, *Corixa*.

Localities: Pa. (Palaearectic.)

1451. *Arctocorixa stigmatica* (Fieb.)Fieber, Spec. Generis Corisa, p. 36, 1851, *Corisa*.

Locality: "N. Am."

1452. *Arctocorixa striata* (Linn.)Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Notonecta*.Linnaeus, Fauna Suec., edn. 2, p. 244, No. 904, 1761, *Notonecta*.De Geer, Mémoires, iii, p. 395, 1773, *Nepa* (part).Fabricius, Spec. Ins., ii, p. 332, 1781, *Sigara* (part).Schränk, Enum. Ins. Aust., p. 261, 1781, *Notonecta*.Fabricius, Ent. Syst., iv, p. 60, 1794, *Sigara* (part).Walekenaer, Fauna Paris., ii, p. 333, 1802, *Sigara* (part).Fabricius, Syst. Rhyng., p. 104, 1803, *Sigara* (part).Brullé, Hist. Nat. des Ins., ix, p. 251, 1835, *Corixa*.Kirby in Richardson, Fauna Bor. Am., iv, p. 283, 1877, *Corixa*.Spinola, Essai sur les Hémip., p. 57, 1837 (1840), *Corixa*.Blanchard, Hist. Nat. des Ins., Hémip., p. 87, 1840, *Corixa*.Amyot and Serville, Hémip., p. 447, 1843, *Corisa*.Fieber, Spec. Generis Corisa, p. 30, pl. 2, No. 11, 1851, *Corisa*.Flor, Rhyn. Livl., i, p. 793, 1860, *Corisa*.Fieber, Europ. Hemip., p. 97, 1860, *Corisa*.Douglas and Scott, Brit. Hemip., p. 606, 1865, *Corisa*.Thomson, Opusc. Ent., i, p. 34, 1869, *Corisa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876, *Corixa*.Puton, Synop. Heter. Fr., i, p. 227, 1879, *Corixa*.Reuter, Rev. Synon., p. 376, No. 355, 1888, *Corisa*.Wallengren, Ent. Tidskr., xv, p. 150, 1894, *Corisa*.Gillette and Baker, Hemip. Colo., p. 64, 1895, *Corisa*.

Localities: Neb., Colo., Brit. Am. (Palaearectic.)

1453. *Arctocorixa sutilis* (Uhl.)Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 339, 1876; iii, p. 453, 1877, *Corixa*.Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332, *Corisa*.Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa*.

Localities: Colo., Utah, N. Mex., Mont., Brit. Am.

1454. *Arctocorixa tarsalis* (Fieb.)Fieber, Spec. Generis Corisa, p. 19, 1851, *Corisa*.

Localities: Pa.

1455. *Arctocorixa trilineata* (Prov.)Provancher, Nat. Can., iv, p. 108, 1872, *Corixa*.*trivittata* Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888, *Corixa* (unnecessary substitute for *trilineata*).

Locality: Quebec.

1456. *Arctocorixa tumida* (Uhl.)Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 454, 1877, *Corixa*.Gillette and Baker, Hemip. Colo., p. 64, 1895, *Corisa*.

Locality: Colo.

1457. *Arctocorixa vulnerata* (Uhl.)Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 284, 1861, *Corixa*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iv, p. 509, 1878, *Corisa*.

Localities: Ill., Mont., Wash., Ore.

1458. *Arctocorixa wallengreni* (Stål)Stål, Freg. Eugen. Resa, Ins., p. 268, 1859, *Corixa*.

Locality: Calif.

1459. *Arctocorixa zimmermannii* (Fieb.)Fieber, Spec. Generis Corisa, p. 21, pl. 1, No. 18, 1851, *Corisa*.

Localities: Pa., "Carolina."

Subgenus *Hesperocorixa* Kirk.Haplotype *brimleyi* Kirk.

Kirkaldy, Can. Ent., xl, pp. 118, 120, 1908.

1460. *Arctocorixa brimleyi* Kirk.

Kirkaldy, Can. Ent., xl, p. 120, 1908.

Locality: N. C.

Genus *Palmacorixa* AbbottHaplotype *gillettii* Abbott

Abbott, Ent. News, xxiii, p. 337, 1912.

1461. *Palmacorixa gillettii* Abbott

Abbott, Ent. News, xxiii, p. 337, pl. 18, 1912.

Locality: Colo.

1462. *Palmacorixa buenoi* Abbott

Abbott, Can. Ent., xlv, p. 113, 1913.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.

Localities: Mass., N. Y., D. C., Ga.

Genus *Corixa* Geoff.Haplotype *striata* Geoff. = *geoffroyi* LeachGeoffroy, Hist. Abreg. des Ins., i, p. 477, 1762 (*striata* of Geoff. only species).

Foureroy, Ent. Paris., i, p. 221, 1785.

Olivier, Eneye. Méth., iv, p. 25, 1789.

Latreille, Précis, p. 88, 1797.

Lamarek, Syst. Anim. s. Vert., p. 297, 1801 (names *striata* Linn. type).

Latreille, Hist. Nat. Crust. Ins., iii, p. 255, 1902; xii, p. 287, 1804.

Latreille, Genera Crust. Ins., iii, p. 151, 1807.

Latreille, Consid. Génl., pp. 261, 434, 1910 (names *striata* Linn. type).

Lamarek, Hist. Nat. Anim. s. Vert., iii, p. 520, 1816.

Fallén, Hemip. Suec., Cimic., p. 181, 1829.

Laporte, Essai Classif. Syst. Hémiép., p. 20, 1832 (names *striata* Linn. type).

Herrieh-Schaeffer, Nomen. Ent., i, pp. 39, 63, 1835.

Burmeister, Handb. d. Ent., ii, p. 186, 1835.

Brullé, Hist. Nat. des Ins., ix, p. 249, 1835.

Blanchard, Hist. Nat. des Ins., Hémiép., p. 87, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *striata*Amyot and Serville, Hémiép., p. 445, 1843, *Corisa*. [Linn. type).

- Spinola, Tavola Sinot., p. 49, 1850.
 Fieber, Spec. Generis Corisa, p. 13, 1851, *Corisa*.
 Flor, Rhyn. Livl., i, pp. 780, 783, 1860, *Corisa*.
 Fieber, Europ. Hemip., pp. 31, 90, 1860, *Corisa*.
 Kirkaldy, Entomologist, xxxi, p. 253, 1898.
 Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 44, 1901.
 Distant, Fauna Br. Ind., Rhyn., iii, p. 49, 1906 (cites *geoffroyi* Leach as type).
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
 Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 75, 1912.
 Oshanin, Kat. Palae. Hemip., p. 91, 1912.
Sigara Fabricius, Syst. Ent., p. 691, 1775 (haplotype *striata* Fabr.).
Macrocorisa Thomson, Opusc. Ent., i, p. 28, 1869 (type *geoffroyi* Leach).
 B. White, Ent. Mo. Mag., x, p. 62, 1873, *Macrocorisa*.
 Puton, Synop. Heter. Fr., i, p. 220, 1879.
 Wallengren, Ent. Tidskr., xv, pp. 132, 134, 1894.
 Oshanin, Verz. Palae. Hemip., i, p. 978, 1909.
Trichocorixa Kirkaldy, Can. Ent., xl, p. 118, 1908 (type *pygmaea* Fieb.).

1463. *Corixa gordita* Abbott

Abbott, Bul. Brookl. Ent. Soc., viii, p. 84, 1913.

Locality: Ga.

1464. *Corixa sellaris* Abbott

Abbott, Bul. Brookl. Ent. Soc., viii, p. 85, 1913.

Locality: Ga.

1465. *Corixa macroceps* Kirk.Kirkaldy, Can. Ent., xl, p. 119, 1908, *Arctocorisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 86, 1913.

Locality: Ga.

1466. *Corixa minima* Abbott

Abbott, Bul. Brookl. Ent. Soc., viii, p. 86, 1913.

Locality: Ga.

1467. *Corixa verticalis* Fieb.Fieber, Spec. Generis Corisa, p. 24, pl. 1, No. 22, 1851, *Corisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.

Localities: Pa., Ga.

1468. *Corixa*(?) *pygmaea* Fieb.Fieber, Spec. Generis Corisa, p. 24, pl. 2, No. 1, 1851, *Corisa*.Kirkaldy, Can. Ent., xl, p. 118, 1908 (as type of *Trichocorixa*).

Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.

Localities? (West Indies.)

1469. *Corixa burmeisterii* Fieb.Fieber, Spec. Generis Corisa, p. 24, 1851, *Corisa*.

Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913 (mention).

Locality: "N. Am."

Species unknown.

[*Corixa annexa* Uhler MS]

Walker, Cat. Heter., viii, p. 199, 1873.

Kirkaldy, Entomologist, xxx, p. 259, 1897.

Locality: Canadian Northwest.

SUBORDER HOMOPTERA LATR.

- Latreille, Consid. Génl., p. 262, 1810.
 Mac Leay, Horae Ent., ii, p. 367, 1821 (as Order).
 Mac Leay, Trans. Linn. Soc. Lond., xiv, p. 67, 1825 (as Order).
 Latreille, Fam. Nat. Règne Animal, p. 426, 1825.
 Kirby and Spence, Introd. to Ent., iv, p. 377, 1826.
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 209, 1829.
 Fallén, Hemip. Suec., Cimic., preface, 1829. (*Collirostres*.)
 Westwood, Intr. Mod. Classif. Ins., i, p. 29; ii, p. 414, 1840 (as Order).
 Blanchard, Hist. des Ins., Hémip., p. 163, 1840.
 Amyot and Serville, Hémip., p. 455, 1843.
 Stål, Stet. Ent. Zeit., xix, p. 233, 1858.
 Siphonata Retzius, Genera Spec. Ins., p. v, 1783.
 †*Omoptera* Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.
 Gulaerostria Zetterstedt, Ins. Lapp., column , 1840.
 Flor, Rhyn. Livl., ii, p. 1, 1861.
 Hypoccephalocera Spinola, Tavola Sinot., p. 27, 1850.

SERIES AUCHENORHYNCHA DUM.

- Duméril, Zool. Analyt., p. 269, 1806.
 Amyot and Serville, Hémip., p. 456, 1843.
 Flor, Rhyn. Livl., ii, p. 4, 1861.
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 295, 1906 (Group).

Family CICADIDAE (Latr.)

- Latreille, Hist. Nat. Crust. Ins., iii, p. 257, 1802, *Cicadariae* (*Cicadae verae*).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 293, 1804, *Cicadariae* (*Cicadae verae*).
 Latreille, Gen. Crust. Ins., iii, p. 152, 1807, *Cicadariae*.
 Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Cicadida*.
 Stephens, Cat. Brit. Ins., ii, p. 355, 1829, *Cicadiidae*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 420; Synop., p. 115, 1840.
 Spinola, Tavola Sinot., pp. 27, 50, 1850, *Cicaditac*.
 Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Cicadina*.
 Packard, Guide to Study of Ins., p. 533, 1869, *Cicadariae*.
 Sahlberg, Cicadariae, p. 65, 1871, *Cicadina*.
 Fieber, Cat. Europ. Cicad., p. 1, 1872, *Cicadaca*.
 Fieber, Cicad. d'Eur., i, pp. 40, 47, 1875, *Cicadaca*.
 Distant, Biol. Centr. Am., Homop., i, p. 1, 1881.
 Uhler, Stand. Nat. Hist., ii, p. 226, 1884.
 Woodworth, Psyche, v, p. 67, 1888 (synopsis).
 Ashmead, Ent. Am., iv, p. 140, 1888. (Key.)
 Distant, Monog. Orient. Cicad., p. 1, 1889.
 Provancher, Pct. Faune Ent. Can., iii, p. 208, 1889.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892.
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- Macgillivray, Can. Ent., xxxiii, p. 74, 1901. (Key.)
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 55, 1906.
 Distant, Cat. Homop., Cicad., p. 1, 1906.
 Kirkaldy, Haw. S. P. A. Exp. St. Bul., i, p. 295, 1906; iii, p. 9, 1907.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911
 Oshanin, Kat. Palae. Hemip., p. 94, 1912.
 Distant, Gen. Ins., fasc. 142, p. 1, 1912.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 21, 1915. (Keys.)
Manniferae Linnaeus, Syst. Nat., edn. 10, i, p. 436, 1758.
 Germar, Mag. d. Ent., iv, p. 95, 1821.
Tettigonides Fallén, Spec. Nova Hemip., disp. Meth., pp. 3, 13, 1814.
Stridulantes Latreille, Fam. Nat. Règne Anim., p. 426, 1825 (Tribe).
 Germar, Silb. Rev. Ent., i, p. 174, 1833 (Stirps).
 Burmeister, Handb. d. Ent., ii, p. 170, 1835, *Stridulantia*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 164, 1840, *Striduliens*.
 Amyot and Serville, Hémip., p. 458, 1843.
 Fieber, Gen. Hydroc., p. 10, 1851.
 Stål, Hemip. Afr., iv, p. 1, 1866, *Stridulantia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Stridulantia*.
 Hansen, Ent. Tidskr., xi, p. 63, 1890, *Stridulantia*. [(transl. of Hansen).
 Kirkaldy, Entomol., xxxiii, pp. 116, 335, 1900; xxxv, p. 215, 1902
Chanteuscs Latreille, in Cuvier, Règne Anim., edn. 2, v, p. 212, 1829. [*triecs*.
 Latreille, in Cuvier, Anim. Kingd., Lond. edn., iv, p. 172, 1836, *Canta-*

Subfamily TIBICENINAE Van D.

- Van Duzee, Check List Hemip., p. 55, 1916.
Cicadides Amyot and Serville, Hémip., pp. liii, 468, 1843 (Groupe).
 Ashmead, Ent. Am., iv, p. 140, 1888, *Cicadinac*.
 Distant, Monog. Orient. Cicad., p. 3, 1889, *Cicadinac*.
 Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 293, 1904, *Cicadinac*.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 58, 1906, *Cicadinac*.
 Distant, Cat. Homop., Cicadidae, pp. 1, 2, 1906, *Cicadinac*.
 Distant, Gen. Ins., fasc. 142, p. 3, 1912, *Cicadinac*.
 Oshanin, Kat. Palae. Hemip., p. 94, 1912, *Cicadinac*.
 §*Tibicinae* Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.

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- Van Duzee, Check List Hemip., p. 55, 1915. [(Division.)
Cicadaria Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, pp. 329, 425, 1904.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 78, 1906. (Division.)
 Distant, Cat. Homop., Cicadidae, p. 30, 1906. (Division.)
 Distant, Gen. Ins., fasc. 142, p. 25, 1912. (Division.)

Genus *Tibicen* Latr.

Haplotype *plebeja* (Scop.)

- Latreille, Fam. Nat. Règne Anim., p. 426, 1825 (no description, *plebeja* only
 Germar, Silb. Rev. Ent., ii, p. 52, 1834. [species mentioned].
 Burmeister, Handb. d. Ent., ii, pp. 179, 182, 1835 (as Subgenus).

- Van Duzee, Can. Ent., xlv, p. 387, 1914 (restricts *Cicada* to *orni* and its allies).
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.
 Van Duzee, Check List Hemip., p. 55, 1916.
 †*Cicada* Latreille, Consid. Génl., p. 434, 1810 (names *plebeja* pseudotype).
 Germar, Mag. d. Ent., iv, p. 95, 1821.
 Germar, Silb. Rev. Ent., ii, p. 56, 1834.
 Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 614, 1861.
 Stål, Hemip. Afr., iv, p. 6, 1866.
 Distant, Biol. Centr. Am., Homop., i, p. 6, 1881.
 Woodworth, Psyche, v, p. 67, 1888.
 Ashmead, Ent. Am., iv, p. 141, 1888.
 Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892.
 Macgillivray, Can. Ent., xxxiii, p. 75, 1901.
 Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, pp. 330, 428, 1904.
 Distant, Cat. Homop., Cicadidae, p. 38, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 491, 1912 (names *tibicen*
 Distant, Gen. Ins., fasc. 142, p. 30, 1912. [pseudotype].
 †*Tettigonia* Fabricius, Syst. Ent., p. 678, 1775.
 Thunberg, Charae. Gen. Ins., edn. 2, p. 32, 1791.
 Fabricius, Ent. Syst., iv, p. 16, 1794.
 Fabricius, Syst. Rhyng., p. 33, 1803 (indicates *tibicen* as type).
 Leach in Brewster's Edinbg. Ence., Am. reprint, ix, p. 124, 1830.
 Leach in Brewster's Edinbg. Ence., Am. edn., viii, p. 713, 1832.
Chremistica Stål, Of. Vet. Akad. Forh., xxvii, p. 714, 1870 (as Subgenus).
 Kirkaldy, Ann. Soc. Ent. Belg., li, p. 305, 1907.
Diceroprocta Stål, Of. Vet. Akad. Forh., xxvii, p. 714, 1870 (as Subgenus).
 Kirkaldy, Ann. Soc. Ent. Belg., li, p. 305, 1907.
Rihana Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 426, 1904. (*Orthotype*
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 78, 1906. [ochracea Walk.]
 Distant, Cat. Homop., Cicadidae, p. 32, 1906.
 Distant, Genera Ins., fasc. 142, p. 27, 1912.

1470. *Tibicen biconica* (Walk.)

- Walker, List Homop., i, p. 120, 1850, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.
 Localities: Fla. (West Indies, Mexico.)

1471. *Tibicen townsendi* (Uhl.)

- Uhler, Ent. News, xvi, p. 74, 1905, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiv, p. 46, 1916, *Cicada*.
 Localities: Texas, N. Mex., Ariz., Calif.

1471½. *Tibicen bifidus* (Davis)

- Davis, Jl. N. Y. Ent. Soc., xxiv, p. 47, 1916, *Cicada*.
 Localities: Kans., Colo., Utah, Ariz.

1472. *Tibicen rudis* (Walk.)

- Walker, List Homop., Suppl., p. 13, 1858, *Fidicina*.
 Distant, Biol. Centr. Am., Homop., i, p. 8, pl. 2, fig. 20, 1881, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 154, 1892, *Cicada*.
 Localities: Ariz. (Mexico.)

1473. *Tibicen linnei* (Sm. & Grsb.)

- Smith and Grossbeck, Ent. News, xviii, p. 127, 1907, *Cicada*.
 Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 10, 1915, *Cicada*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada*.
 †*tibicen* Germar, Mag. d. Ent., iv, p. 95, 1821, *Cicada*.
 Germar, Silb. Rev. Ent., ii, p. 52, note, 64, 1834, *Cicada*.
 Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada*.
 Walker, List Homop., i, p. 94, 1850, *Fidicina*.
 Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 367, no. 73, 1856, *Cicada*.
 Jaeger, Life of N. Am. Ins., p. 70, 1859, *Cicada*.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 219, 1862, *Cicada*.
 Stål, Of. Vet. Akad. Forh., xix, p. 480, 1862, *Cicada*.
 Stål, Hemip. Fabr., ii, p. 6, 1869, *Cicada*.
 Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada*.
 Woodworth, Psyche, v, p. 68, 1888, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892, *Cicada*.
 Macgillivray, Can. Ent., xxxiii, p. 82, 1901, *Cicada*.
 Felt, N. Y., St. Museum. Memoir 8, i, p. 237, pl. 46, fig. 1, 1905.
 Distant, Cat. Homop., Cicadidae, p. 36, 1906, *Rihana*.
 Davis and Joutel, Ent. News, xvii, p. 238, 1906, *Cicada*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Distant, Genera Ins., fasc. 142, p. 29, 1912, *Rihana*.
chloromera Walker, List Homop., i, p. 43, 1850, *Thopha*.
 Localities: Mass., N. Y., Mich., Tenn., N. C., Ill., Kans.

1474. *Tibicen pruinosa* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 336, 1825; Compl. Writ., ii, p. 251, *Cicada*.
 Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada*.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 218, 1862, *Cicada*.
 Provancher, Pet. Faune Ent. Can., iii, p. 211, 1889, *Cicada*.
 Davis and Joutel, Ent. News, xvii, p. 237, 1906, *Cicada*.
 Smith and Grossbeck, Ent. News, xviii, p. 123, 1907, *Cicada*.
 Davis, Ent. News, xxi, p. 457, 1910, *Cicada*.
 Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, pp. 9, 10, 1915, *Cicada*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada*.
 §*brunco* Wild, Ann. Soc. Ent. Fr., ser. 2, x, Bul., p. xviii, 1852, *Cicada*.
 †*canicularis* Provancher, Pet. Faune Ent. Can., iii, p. 211 (in key), 1889,
 Localities: Pa., Ind., Mo., Neb., Kans., Texas. [Cicada.]
a. var. winnemanna (Davis)
 Davis, Bul. Brookl. Ent. Soc., viii, p. 3, 1912, *Cicada*.
 Localities: Md., N. C.
b. var. latifasciata (Davis)
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada*.
 Weiss, Ent. News, xxvii, p. 163, 1916, *Cicada*.
 Localities: N. J., Pa., N. C., Texas.

1475. *Tibicen sayi* (Sm. & Grsb.)

- Smith and Grossbeck, Ent. News, xviii, p. 124, 1907, *Cicada*.
 Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada*.

Davis, Ent. News, xxiii, p. 261, 1912, *Rihana*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada*.

Localities: Ont., N. Y., N. J., N. C., Ga., Fla., Ala., Ky., Miss., Ohio.

a. var. australis (Davis)

Davis, Ent. News, xxiii, p. 261, 1912, *Rihana*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Localities: Ga., Fla.

1476. *Tibicen* (?) *variegata* (Fabr.)

Fabricius, Ent. Syst., iv, p. 19, 1794, *Tettigonia*.

Fabricius, Syst. Rhyn., p. 37, 1803, *Tettigonia*.

Walker, List Homop., i, p. 120, 1850, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892, *Cicada* (as synon.).

Smith and Grossbeck, Ent. News., xviii, pp. 118, 120, 1907, *Tibicina*.

Locality: "Carolina." (May be a *Tibicina*.)

1477. *Tibicen lyriceus* (De G.)

De Geer, Mémoires, iii, p. 212, pl. 32, fig. 23, 1773, *Cicada*.

Smith and Grossbeck, Ent. News, xviii, p. 125, 1907, *Cicada*.

Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada*.

Barber, Proc. Ent. Soc. Wash., xiv, p. 210, 1912, *Cicada* (eggs).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada*.

fulvula (Osborn), Ent. News, xviii, p. 322, 1906, *Cicada*.

Localities: Ont., R. I., N. Y., N. J., N. C., Fla., Ala., Ohio, Ind.

a. var. engelhardti (Davis).

Davis, Ent. News, xxi, p. 458, 1910, *Cicada*.

Davis, Ent. News, xxiii, p. 261, 1912, *Rihana*.

Localities: N. C., Ga.

1477½. *Tibicen figurata* (Walk.)

Walker, List Homop., Suppl., p. 19, 1858, *Fidicina*.

Davis, J. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada* (var. ? of *lyricus* or *simi-*

Davis, J. N. Y. Ent. Soc., xxiv, p. 43, 1916, *Cicada*. [laris].

Localities: Fla., Ala., Miss., La.

1478. *Tibicen similis* (Sm. & Grsh.)

Smith and Grossbeck, Ent. News, xviii, p. 125, 1907, *Cicada*.

Davis, Ent. News, xxiii, p. 262, 1912, *Rihana*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Localities: Ga., Fla.

1479. *Tibicen canicularis* (Harr.)

Harris, Rept. Ins. Mass., p. 175, 1841, *Cicada*.

Harris, Treat. Ins. Inj. Veg., edn. 2, p. 190, 1852, *Cicada*.

Emmons, Nat. Hist. N. Y., Ins., p. 152, pl. 9, fig. 5, 1854, *Cicada*.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 217, 1862, *Cicada*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada*.

Van Duzee, Can. Ent., xxi, p. 6, 1889, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 151, 1892, *Cicada*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Cicada*.

Davis and Joutel, Ent. News, xvii, p. 237, 1906, *Cicada*.

Smith and Grossbeck, Ent. News, xviii, p. 126, 1907, *Cicada*.

Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada*. [*Cicada* (part).]

†*pruinosa* (Uhler) in Harris Treat. Ins. Inj. Veg., edn. 3, p. 219, 1862,

Localities: Quebec, Ont., Nov. Scot., Mass., N. Y., N. J., D. C.,
Wise., Ia., Colo.

1480. **Tibicen aurifera** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 332, 1825; Compl. Writ., ii, p. 252,

Woodworth, Psyche, v, p. 68, 1888, *Cicada* (var. of *marginata*). [*Cicada*.]

Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada*.

Kirkaldy, Entomologist, xxxiii, p. 242, 1900, *Cicada* (referred to *marginata*).

Macgillivray, Can. Ent., xxxiii, p. 80, 1901, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 44, 1916, *Cicada* (recognized).

Locality: Kans.

1481. **Tibicen davis** (Sm. & Grsb.)

Smith and Grossbeck, Ent. News, xviii, p. 127, 1907, *Cicada*.

Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada*.

Davis, Ent. News, xxiii, p. 261, 1912, *Rihana*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Localities: N. Y., Ga., Fla.

1482. **Tibicen transversa** (Walk.)

Walker, Ins. Saund., Homop., p. 15, 1858, *Cicada*.

Distant, Biol. Centr. Am. Homop., i, p. 7, pl. 2, fig. 1, 1881, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 155, 1892, *Cicada*.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Cicada*.

alacris (Stål), Stet. Ent. Zeit., xxv, p. 62, 1864, *Cicada*.

Localities: Texas, Ariz. (Mexico, Vera Cruz.)

1482½. **Tibicen eugraphica** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 52, 1916, *Cicada*.

Localities: Texas, N. Mex., Ariz.

1483. **Tibicen vitripennis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., ii, p. 236, 1830; Compl. Writ., ii, p. 372, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada*.

Macgillivray, Can. Ent., xxxiii, p. 83, 1901, *Cicada*.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 58, 1916, *Cicada*.

‡*albipennis* Woodworth, Psyche, v, p. 68, 1888, *Cicada*.

Localities: Fla., La., Ind., Okla., Texas, Ariz.

a. var. **nigriventris** (Walk.)

Walker, List Homop., Suppl., p. 21, 1858, *Cicada*.

Distant, Biol. Centr. Am., Homop., i, p. 9, pl. 2, fig. 6, 1881, *Cicada*.

Locality: Mexico (not yet found in our territory).

1484. **Tibicen auletes** (Germ.)

Germer, Silb. Rev. Ent., ii, p. 65, 1834, *Cicada*.

Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada*.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 218, 1862, *Cicada*.

- Davis, Jl. N. Y. Ent. Soc., xxiii, p. 2, 1915, *Cicada*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxi, p. 5, 1915, *Cicada*.
 Weiss, Ent. News, xxvii, p. 162, 1916.
- ?grossa* (Fabricius), Syst. Ent., p. 678, 1775, *Tettigonia*.
 Fabricius, Spec. Ins., ii, p. 318, 1781, *Tettigonia*.
 Fabricius, Mant. Ins., ii, p. 265, 1787, *Tettigonia*.
 Olivier, Encyc. Méth., v, p. 747, 1790, *Cicada*.
 Fabricius, Syst. Rhyng., p. 33, 1803, *Tettigonia*.
 Uhler, Ent. News, xvi, p. 75, 1905, *Cicada*.
 Distant, Genera Ins., fasc. 142, p. 29, 1912, *Rihana*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.
 Van Duzee, Check List Hemip., p. 55, 1916.
- ?sonora* (Walker), List Homop., i, p. 105, 1850, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 6, 1915, *Cicada*.
?literata (Walker), List Homop., i, p. 91, 1850, *Fidicina*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada*. [1905, *Cicada*.
†marginata (Howard), Insect Book, p. 232 (*emarginata*), pl. 28, fig. 19.
 Smith and Grossbeck, Ent. News, xviii, pl. 3, fig. 1, 1907, *Cicada* [genitalia.
- Localities: Mass., Conn., N. Y., N. J., Md., D. C., N. C., S. C., Ga.,
 Fla., Ala., La., Miss., Mich., Mo., Kans.

1485. **Tibicen marginalis** (Walk.)

- Walker, List Homop., iv, p. 1128, 1852, *Cicada* (n.n. for *marginata* Say).
 Van Duzee, Check List Hemip., p. 55, 1916. [ii, p. 251, *Cicada*.
||marginata (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 330, 1825; Compl. Writ.,
 Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada*.
 Woodworth, Psyche, v, p. 68, 1888, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 150, 1892, *Cicada*.
 Gillette and Baker, Hemip. Colo., p. 64, 1895, *Cicada*.
 Macgillivray, Can. Ent., xxxiii, p. 81, 1901, *Cicada*.
 Smith and Grossbeck, Ent. News, xviii, p. 128, 1907, *Cicada*.
 Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 4, 1915, *Cicada*.
 Localities: Fla., Ohio, Ky., Kans., Texas.

1485½. **Tibicen cultriformis** (Davis)

- Davis, Jl. N. Y. Ent. Soc., xxiii, p. 239, 1915, *Cicada*.
 Locality: Ariz.

1486. **Tibicen dealbata** (Davis)

- Davis, Jl. N. Y. Ent. Soc., xxiii, p. 162, 1915, *Cicada* (as var. of *marginata*).
 Localities: Kans., Colo.

1487. **Tibicen resh** (Hald.)

- Haldemann, Stansb. Salt Lake Exped., p. 369, pl. 9, fig. 17, 1852, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 5, 1915, *Cicada*.
robertsoni (Fitch), Trans. N. Y. Ag. Soc., xiv (1854), p. 745, 1855, *Cicada*.
 Davis, Jl. N. Y. Ent. Soc., xxiii, p. 164, 1915, *Cicada* (synon. of *resh*).
 Localities: Miss., La., Okla., Texas, Utah.

1488. **Tibicen resonans** (Walk.)

- Walker, List Homop., i, p. 106, 1850, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 6, 1915, *Cicada*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada*.

Localities: N. C., Ga., Fla., Ala., Kans.

1489. ***Tibicen olympusa*** (Walk.)

Walker, List Homop., i, p. 101, 1850, *Fidicina*.

Stål, Of. Vet. Akad. Forh., xix, p. 484, 1862, *Cicada*.

Distant, Cat. Homop., Cicadidae, p. 36, 1906, *Rihana*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 56, 1916, *Cicada*.

milvus (Walker), Ins. Saund., Homop., p. 11, 1858, *Cicada*.

sordidata (Uhler), Trans. Md. Acad. Sci., i, p. 184, 1909, *Cicada*.

Locality: Fla.

1489½. ***Tibicen texana*** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 54, 1916, *Cicada*.

Locality: Texas.

1490. ***Tibicen superba*** (Fitch)

Fitch, Trans. N. Y. St. Ag. Soc., xiv (1854), p. 745, 1855, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 152, 1892, *Cicada*.

Localities: Ark., Okla., N. Mex., Texas.

1491. ***Tibicen erratica*** (Osb.)

Osborn, Ohio Nat., vi, p. 497, 1906, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 59, 1916, *Cicada*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.

Localities: Miss., La., Ark.

1492. ***Tibicen azteca*** (Kirk.)

Kirkaldy, Can. Ent., xli, p. 391, 1910, *Cicada*.

||*pallida* (Distant), Biol. Centr. Am., Homop., i, p. 8, pl. 2, fig. 7, 1881,

Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada*.

[*Cicada*.

Localities: Texas. (Mexico.)

1493. ***Tibicen delicata*** (Osb.)

Osborn, Ohio Nat., vi, p. 498, 1906, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 60, 1916, *Cicada*.

Localities: La., Texas.

1493½. ***Tibicen castaneus*** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 49, 1916, *Cicada*.

Locality: Ariz.

1494. ***Tibicen reperta*** (Uhl.)

(= next species.)

1495. ***Tibicen viridifascia*** (Walk.)

Walker, List Homop., i, p. 121, 1850, *Cicada*.

Distant, Cat. Homop., Cicadidae, p. 40, 1906, *Cicada*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909, *Cicada*.

Distant, Genera Ins., fasc., 142, p. 31, 1912, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 58, 1916, *Cicada*.

reperta (Uhler), Trans. Md. Acad. Sci., i, p. 177, 1892, *Cicada*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada*.

Van Duzee, Check List Hemip., p. 55, 1916.

Localities: N. C., Fla., La.

1496. **Tibicen montezuma** (Dist.)

Distant, Biol. Centr. Am., Homop., i, p. 8, 1881, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 154, 1892, *Cicada*.

Townsend, Can. Ent., xxiv, p. 195, 1892, *Cicada*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 28, 1915.

rudis (Distant), Biol. Centr. Am., Homop., i, pl. 2, fig. 8, 1881, *Cicada*.

Localities: Texas, N. Mex., Ariz., Calif.

1497. **Tibicen cinctifera** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 156, 1892, *Cicada*.

Distant, Genera Ins., fasc. 142, p. 32, pl. 4, fig. 25, 1912, *Cicada*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 28, 1915.

Localities: N. Mex., Calif.

1498. **Tibicen dorsata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 331, 1825; Compl. Writ., ii, p. 252, *Cicada*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada*.

Uhler, Trans. Md. Acad. Sci., i, p. 152, 1892, *Cicada*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiii, pp. 161, 164, 1915, *Cicada*.

varia (Walker), List Homop., i, p. 42, 1850, *Thopha*.

crassa (Walker), Ins. Saund., Homop., p. 10, 1858, *Fidicina*.

Localities: Mo., Ia., Neb., Kans., Ark., N. Mex., Texas, Colo.

[**Tibicen ochreoptera** Uhl. MS.]

Townsend, Can. Ent., xxiv, p. 195, 1892, *Cicada* (may be *townsendi* Uhl.).

Genus **Cacama** Dist.

Orthotype *maura* Dist.

Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 429, 1904.

Distant, Genera Ins., fasc. 142, p. 33, 1912.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.

1499. **Cacama valvata** (Uhl.)

Uhler, Ent. Am., iv, p. 84, 1888, *Proarna*.

Gillette and Baker, Hemip. Colo., p. 64, 1895, *Cicada*.

Distant, Genera Ins., fasc. 158, p. 16, 1914, *Proarna*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.

Localities: Colo., Ariz.

1500. **Cacama crepitans** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914, *Proarna*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 28, 1915.

Locality: Calif.

Subfamily **CICADINAE** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 24, 1915.

Van Duzee, Check List Hemip., p. 56, 1916.

Gacaniinae Distant, Ann. Mag. Nat. Hist., ser. 7, xv, 304, 1905.

Distant, Cat. Homop., Cicadidae, pp. 1, 72, 1906.

Horvath, Ann. Mus. Natl. Hung., x, p. 602, 1912.

Distant, Genera Ins., fasc. 158, p. 1, 1914.

TRIBE *CICADINI* Van D.

Van Duzee, Check List Hemip., p. 56, 1916.

Cicadatraria Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 304, 1905.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 122, 1906. [(Division.)]

Distant, Cat. Homop., Cicadidae, p. 72, 1906.

Distant, Genera Ins., fasc. 158, p. 1, 1914.

Genus *Cicada* Linn.

Logotype *orni* Linn.

Linnaeus, Syst. Nat., edn. 10, p. 434, 1758.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2092, 1789.

Geoffroy, Hist. Abrég. des Ins., i, pp. 412, 429, 1762.

Scopoli, Ent. Carn., p. 112, 1763.

Brunnich, Entomolog., p. 58, 1764.

De Geer, Mémoires, iii, p. 158, 1773.

Goeze, Ent. Beytr., ii, p. 124, 1778.

Retzius, Gen. et Spec. Ins., p. 79, 1783.

Foureroy, Ent. Paris., i, pp. 184, 193, 1785.

Lamarek, Syst. Anim. sans Vert., p. 292, 1801 (names *orni* Linn. type).

Van Duzee, Can. Ent., xlv, p. 387, 1914.

Van Duzee, Check List Hemip., p. 56, 1916.

Tettigonia Fabricius, Syst. Ent., p. 678, 1775.

Thunberg, Charac. genera Ins., edn. 2, p. 32, 1791.

Fabricius, Syst. Rhyn., p. 33, 1803.

Tettigia Kolenati, Melet. Ent., vii, p. 6, 1857 (type *orni* Linn.).

Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 617, 1861.

Stål, Hemip. Afr., iv, p. 23, 1866.

Fieber, Cicad. d'Eur., i, p. 50, 1875; ii, p. 15, 1876.

Mayr, Tabellen, i, p. 15, 1884.

Uhler, Ent. Am., iv, p. 21, 1888.

Melichar, Cicad. Mitt. Eur., p. 3, 1896.

Froggat, Proc. Linn. Soc. N. S. Wales, xxix, p. 593, 1904.

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 305, 306, 1905.

Distant, Cat. Homop., Cicadidae, p. 74, 1906.

Distant, Genera Ins., fasc. 158, p. 3, 1914.

1501. *Cicada hieroglyphica* Say

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 235, 1830; Compl. Writ., ii, p. 371.

Harris, Rept. Ins. Mass., p. 176, 1841.

Distant, Biol. Centr. Am., Homop., i, p. 11, pl. 3, fig. 2, 1881, *Tettigia*.

Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Tettigia*.

Uhler, Ent. Am., iv, p. 22, 1888, *Tettigia*.

Woodworth, Psyche, v, p. 68, 1888, *Tettigia*.

Macgillivray, Can. Ent., xxxiii, p. 83, 1901, *Tettigia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 88, 1910, *Tettigia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Tettigia*.

Davis, Jl. N. Y. Ent. Soc., p. 60, 1916.

Van Duzee, Check List Hemip., p. 56, 1916.

characterica Germar, Thon, Ent. Archiv., ii, p. 40, 1830.

Localities: N. J., Pa., N. C., Ga., Fla., Miss., La., Texas.

a. var. *johannis* Walk.

Walker, List Homop., i, p. 149, 1850.

Stål, Of. Vet. Akad. Forh., xix, p. 484, 1862, *Tettigia*.

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 62, 1916.

serguttata Walker, List Homop., i, p. 154, 1850.

Localities: N. C., Fla.

1501½. *Cicada chisos* Davis

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 62, pl. 6, fig. 7, 1916.

Locality: Texas.

TRIBE FIDICININI (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 310, 1905. (Div. *Fidicinaria*.)Distant, Cat. Homop., Cicadidae, p. 84, 1906. (Div. *Fidicinaria*.)Distant, Genera Ins., fasc. 158, p. 13, 1914. (Div. *Fidicinaria*.)

Van Duzee, Check List Hemip., p. 56, 1916.

Genus *Proarna* StålLogotype *hilaris* (Germ.)

Stål, Stet. Ent. Zeit., xxv, p. 61, 1864.

Stål, Hemip. Afr., iv, p. 7, 1866.

Distant, Biol. Centr. Am. Homop., i, p. 11, 1881.

Woodworth, Psyche, v, pp. 67, 68, 1888.

Ashmead, Ent. Am., iv, p. 141, 1888 (§*Proarno*).

Maegillivray, Can. Ent., xxxiii, pp. 75, 78, 1901.

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 310, 311, 1905 (names *hilaris*

Distant, Cat. Homop., Cicadidae, pp. 84, 85, 1906. [type].

Distant, Genera Ins., fasc. 158, p. 14, 1914.

1502. *Proarna championi* Dist.

Distant, Biol. Centr. Am., Homop., i, p. 12, pl. 2, fig. 14, 1881.

Uhler, Ent. Am., iv, p. 84, 1888.

Woodworth, Psyche, v, p. 68, 1888.

Maegillivray, Can. Ent., xxxiii, p. 79, 1901.

Localities: Texas. (Mexico.)

1503. *Proarna venosa* (Uhl.)Uhler, Ent. Am., iv, p. 82, 1888, *Prunasis*.Maegillivray, Can. Ent., xxxiii, p. 77, 1901, *Prunasis*.Distant, Cat. Homop., Cicadidae, p. 152, 1906, *Prunasis*.

Distant, Ann. Mag. Nat. Hist., ser. 8, viii, p. 134, 1911.

Distant, Genera Ins., fasc. 158, p. 16, 1914.

Localities: Texas, N. Mex.

Genus *Pacarina* Dist.Orthotype *signifera* (Walk.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 314, 1905.

Distant, Cat. Homop., Cicadidae, pp. 85, 89, 1906.

Distant, Genera Ins., fasc. 158, p. 17, 1914.

1504. *Pacarina signifera* (Walk.)Walker, List Homop., Suppl., p. 22, 1858, *Proarna*.Distant, Biol. Centr. Am., Homop., i, p. 13, 1881, *Proarna*; p. 142, 1905.

Distant, Cat. Homop., Cicadidae, p. 89, 1906.

Distant, Genera Ins., fasc. 158, p. 17, 1914.

Localities: Texas. (Central America.)

Genus **Fidicina** Am. & Serv.

Logotype *mannifera* (Fabr.)

Amyot and Serville, Hémip., p. 472, 1843.

Stål, Rio Jan. Hemip., ii, p. 18, 1858.

Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 614, 1861.

Stål, Hemip. Afr., iv, p. 7, 1866.

Distant, Biol. Centr. Am., Homop., i, p. 16, 1881.

Uhler, Ent. Am., iv, p. 21, 1888.

Ashmead, Ent. Am., iv, p. 141, 1888.

Macgillivray, Can. Ent., xxxiii, pp. 75, 79, 1901.

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 315, 1905 (names *mannifera* type).

Distant, Cat. Homop., Cicadidae, p. 91, 1906.

Distant, Genera Ins., fasc. 158, p. 18, 1914.

1505. **Fidicina pronoe** (Walk.)

Walker, List Homop., i, p. 144, 1850, *Cicada*.

Distant, Biol. Centr. Am., Homop., i, p. 16, pl. 1, fig. 6, 1881.

Uhler, Trans. Md. Acad. Sci., i, p. 148, 1892; ii, p. 2, 1903.

vinula Stål, Of. Vet. Akad. Forh., xi, p. 242, 1854.

compacta (Walker), Ins. Saund., Homop., p. 14, 1858, *Cicada*.

Localities: Texas. (Neotropical.)

TRIBE ZAMMARINI (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 380, 1905. (Div. *Zammararia*.)

Distant, Cat. Homop., Cicadidae, p. 96, 1906.

Distant, Genera Ins., fasc. 158, p. 22, 1914.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 24, 1915.

Genus **Odopoea** Stål

Logotype *dilatata* (Fabr.)

Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 616, 1861.

Stål, Hemip. Afr., iv, p. i, 1866.

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 380, 1905 (names *dilatata* type).

Distant, Cat. Homop., Cicadidae, p. 96, 1906.

Distant, Genera Ins., fasc. 158, p. 23, 1914.

1506. **Odopoea funesta** (Walk.)

Walker, Ins. Saund., Homop., p. 2, 1858, *Zammararia*.

Distant, Cat. Homop., Cicadidae, p. 97, 1906.

Localities: "N. Am." (West Indies.)

(Woodworth, Psyche, v, 68, records *Zammararia smaragdina* Walk. from San Diego, Calif., on strength of specimen in Museum Comp. Zool. at Cambridge. The label "San Diego" must, however, have referred to San Diego, Mexico.)

Subfamily TIBICININAE (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 304, 1905.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 154, 1906.

- Distant, Cat. Homop., Cicadidae, pp. 1, 107, 1906.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 24, 1916.
 Van Duzee, Check List Hemip., p. 56, 1916.

TRIBE *HYANTIINI* (Dist.)

- Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 478, 1905. (Div. *Hyantiaria*.)
 Distant, Cat. Homop., Cicadidae, p. 107, 1906. (Div. *Hyantiaria*.)
 Van Duzee, Check List Hemip., p. 56, 1916.

Genus *Queseda* Dist.

Orthotype *gigas* (Oliv.)

- Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 478, 1905.
 Distant, Cat. Homop., Cicadidae, p. 108, 1906.

1507. *Queseda gigas* (Oliv.)

- Olivier, Encyc. Méth., v, p. 750, pl. 3, fig. 4, 1790, *Cicada*.
 Distant, Biol. Centr. Am., Homop., i, p. 14, pl. 1, fig. 9, 1881, *Tympanoterpes*.
 Karsch, Berl. Ent. Zeit., xxxv, p. 107, pl. 4, fig. 12, 1890, *Tympanoterpes*.
 Uhler, Trans. Md. Acad. Sci., i, p. 147, 1892, *Tympanoterpes*.
 Macgillivray, Can. Ent., xxxiii, p. 79, 1901, *Tympanoterpes*.
 Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 479, 1905 (as type of *Queseda*).
triupsilon (Walker), List Homop., i, p. 103, 1850, *Cicada*.
sonans (Walker), List Homop., i, p. 104, 1850, *Cicada*.
consonans (Walker), List Homop., i, p. 106, 1850, *Cicada*.
 †*grossa* Stål, Rio Jan. Hemip., ii, p. 19, 1858, *Cicada*.
sibilatrix (Berg), Hemip. Argent., p. 210, 1879, *Tympanoterpes*.
 Localities: Texas. (Neotropical.)

TRIBE *TETTIGADESINI* (Dist.)

- Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 479, 1905. (Div. *Tettigadesaria*.)
 Distant, Cat. Homop., Cicadidae, p. 109, 1906. (Div. *Tettigadesaria*.)
 Van Duzee, Check List Hemip., p. 56, 1916.

Genus *Tettigades* Am. & Serv.

Haplotype *chilensis* A. & S.

- Amyot and Serville, Hémip., p. 469, 1843.
 Stål, Hemip. Afr., iv, p. 2, 1866.
 Distant, Biol. Centr. Am., Homop., i, p. 5, 1881.
 Ashmead, Ent. Am., iv, p. 141, 1888.
 Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 481, 1905.
 Distant, Cat. Homop., Cicadidae, pp. 109, 110, 1906.

1508. *Tettigades mexicana* Dist.

- Distant, Biol. Centr. Am., Homop., i, p. 6, pl. 2, fig. 9, 1881.
 Uhler, Trans. Md. Acad. Sci., i, p. 167, 1892.
 Localities: Ariz. (Mexico.)

TRIBE *CARINETINI* (Dist.)

- Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 483, 1905. (Div. *Carinetaria*.)
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 160, 1906. (Div. *Carinetaria*.)
 Distant, Cat. Homop., Cicadidae, p. 116, 1906. (Div. *Carinetaria*.)
 Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Herrera** Dist.Orthotype *marginella* (Walk.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 484, 486, 1905.

Distant, Cat. Homop., Cicadidae, p. 121, 1906.

1509. **Herrera marginella** (Walk.)

Walker, List Homop., Suppl., p. 21, 1858, *Cicada*.

Distant, Biol. Centr. Am., Homop., i, p. 21, pl. 2, fig. 16, 1883, *Carineta*.

Uhler, Trans. Md. Acad. Sci., i, p. 166, 1892, *Carineta*.

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 486, 1905 (as type of *Herrera*.)

Distant, Cat. Homop., Cicadidae, p. 121, 1906.

ancilla (Stål), Stet. Ent. Zeit., xxv, p. 57, 1864, *Carineta*.

Localities: Ariz. (Neotropical.)

TRIBE *TIBICININI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 22, 1905. (Div. *Tibicinaria*.)

Distant, Fauna Brit. Ind., Rhyn., iii, p. 162, 1906. (Div. *Tibicinaria*.)

Distant, Cat. Homop., Cicadidae, p. 123, 1906. (Div. *Tibicinaria*.)

Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Tibicina** Kol.Logotype *haematodes* (Scop.)

Kolenati, Melet. Ent., vii, p. 16, 1857.

Fieber, Cicad. d'Eur., ii, p. 20, 1876.

Mayr, Tabellen, i, p. 15, 1884.

Melichar, Cicad. Mitt. Eur., p. 5, 1896.

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 22, 1905 (names *haematodes* Scop.

Distant, Cat. Homop., Cicadidae, p. 123, 1906. [type])

Oshanin, Kat. Palae. Hemip., p. 95, 1912.

Van Duzee, Check List Hemip., p. 56, 1916.

†*Tettigonia* Fallén, Hemip. Suec., Cicad., p. 79, 1826 (for *haematodes*).

†*Tibicen* Latreille, in Cuvier, Règne Anim., edn. 2, v, p. 215, note, 1829.

Latreille, in Cuvier Anim. Kingd., Lond. edn., iv, p. 174, 1836.

Amyot and Serville, Hémip., p. 482, 1843 (names *sanguinea* Fabr. type).

Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 617, 1861.

Stål, Hemip. Afr., iv, pp. 8, 25, 1866.

Distant, Biol. Centr. Am., Homop., i, p. 18, 1883.

Woodworth, Psyche, v, p. 67, 1888.

Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892.

Macgillivray, Can. Ent., xxxiii, p. 74, 1901.

Kirkaldy, Ann. Soc. Ent. Belg., li, p. 307, 1907.

Oshanin, Verz. Palae. Hemip., ii, p. 7, 1908.

1510. **Tibicina septendecim** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 436, 1758; edn. 12, ii, p. 708, 1767, *Cicada*.

Fabricius, Syst. Ent., p. 679, 1775, *Tettigonia*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2099, 1788, *Cicada*.

Olivier, Encyc. Méth., v, p. 749, 1790, *Cicada*.

Fabricius, Ent. Syst., iv, p. 19, 1794, *Tettigonia*.

Fabricius, Syst. Rhyng., p. 36, 1803, *Tettigonia*.

Germar, Thon, Ent. Archiv., ii, p. 4, 1830, *Cicada*.

- Germar, Silb. Rev. Ent., ii, p. 64, 1834, *Cicada*.
 Blanchard, Hist. des Ins., Hemip., p. 166, 1840, *Cicada*.
 Harris, Rept. Ins. Mass., p. 167, 1841, *Cicada*.
 Harris, Treat. Ins. Inj. Veg., edn. 2, p. 180, 1852, *Cicada*.
 Emmons, Nat. Hist. N. Y., Ins., p. 150, pl. 9, fig. 3, 1854, *Cicada*.
 Jager, Life of N. Am. Ins., p. 64, 1859, *Cicada* (annual appearance).
 Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 618, 1861, *Tibicen*.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 206, 1862, *Cicada*.
 Riley, 1st Mo. Rept., p. 18, 1868, *Cicada*.
 Stål, Hemip. Fabr., ii, p. 116, 1869, *Tibicen*.
 Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada*.
 Lintner, 2d Rept. N. Y. St. Ent., p. 167, 1885, *Cicada*.
 Riley, Rept. U. S. Dept. Agr. for 1885, p. 233, *Cicada*.
 Woodworth, Psyche, v, p. 68, 1888, *Tibicen*.
 Provancher, Pet. Faune Ent. Can., iii, p. 212, 1889, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892, *Tibicen*.
 Marlatt, U. S. Dept. Ag., Div. Ent., Bul. n. s. 14, 1898, *Cicada*.
 Felt, N. Y. St. Museum Memoir 8, i, p. 231, pl. 46, fig. 2, 1905, *Tibicen*.
 Distant, Cat. Homop. Cicadidae, p. 125, 1906.
 Marlatt, U. S. Dept. Agr., Div. Ent., Bul. 71, 1907, *Cicada*.
 Smith, Cat. Ins. N. J., edn. 3, p. 88, 1910, *Tibicen*.
 costalis (Fabricius), Ent. Syst., Suppl., p. 516, 1798, *Tettigonia*.
 Coquebert, Illust. Icon. Ins., i, p. 34, pl. 9, fig. 2, 1799, *Tettigonia*.
 Stål, Hemip. Fabr., ii, p. 116, 1869, *Tibicen*.

raee **tredecim** (Riley)

Riley, 1st Mo. Rept., p. 19, 1868, *Cicada*.

a. var. **cassinii** (Fisher)

Fisher, Proc. Acad. Nat. Sci. Phila., v, p. 272, 1851, *Cicada* (as form).

Riley, 1st Mo., Rept., p. 21, 1868, *Cicada*.

Localities: Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Md., Del.,
 D. C., Va., N. C., S. C., Ga., Ala., Ohio, Mich, Ill., Ind., Ky.,
 Tenn., Miss., La., Ark., Kans., Mo., Okla.

Genus **Okanagana** Dist.

Orthotype *rimosa* (Say)

Distant Ann. Mag. Nat. Hist., ser. 7, xvi, pp. 23, 190, 1905.

Distant, Cat. Homop., Cicadidae, p. 126, 1906.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 25, 1915. (Key.)

1511. **Okanagana cruentifera** (Uhler)

Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen*.

Gillette and Baker, Hemip. Colo., p. 65, 1895, *Tibicen*.

Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 25, 1915.

Localities: Colo., Nev., Calif.

1512. **Okanagana ornata** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 33, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

Locality: Calif.

1512½. *Okanagana rotundifrons* Davis

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 235, pl. 2, fig. 2, 1916.

Locality: Calif.

1513. *Okanagana arctostaphylae* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 34, 1915.

Locality: Calif.

1514. *Okanagana rubrovenosa* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 11, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 35, 1915.

Locality: Calif.

1515. *Okanagana tristis* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 35, 1915.

Locality: Calif.

1516. *Okanagana mariposa* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 12, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 36, 1915.

Locality: Calif.

1517. *Okanagana hirsuta* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 13, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 43, 1915.

Locality: Calif.

1518. *Okanagana rimosa* (Say)Say, Jl. Acad. Nat. Sci. Phila., vi, p. 235, 1830; Compl. Writ., ii, p. 372, *Cicada*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Cicada*.Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Cicada*.Provancher, Pet. Faune Ent. Can., iii, p. 214, 1889, *Cicada*.Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892, *Tibicen*.Osborn, Proc. Ia. Acad. Sci., iii, p. 201, 1895, *Tibicen*.

Distant, Cat. Homop., Cicadidae, p. 126, 1906.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 36, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

canadensis (Provancher), Pet. Faune Ent. Can., iii, p. 213, 1889, *Cicada*.Uhler, Trans. Md. Acad. Sci., i, p. 165, 1892, *Tibicen*.

Localities: Quebec, Ia., Colo., Utah, Nev., Calif., Br. Col., Vanc. Isd.

1519. *Okanagana canescens* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 37, 1915.

Locality: Calif.

1520. *Okanagana occidentalis* (Walk.)Walker in Lord's Nat. in Vanc. Isd., ii, p. 339, 1866, *Cicada*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 44, 1915.

Localities: Oregon, Vanc. Isd.

1521. *Okanagana schaefferi* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 19, 1915.

Locality: Utah.

1522. *Okanagana vanduzeei* Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 165, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 37, 1915. [jectural).

†*noveboracensis* Cooke, Inj. Ins. Orchard & Viny., p. 74, 1883, *Cicada* (con-

Localities: Calif., Wash.

a. var. *consobrina* Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 165, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 38, 1915.

Locality: Calif.

1523. *Okanagana noveboracensis* (Emms.)Emmons, Nat. Hist. N. Y., Ins., p. 152, pl. 9, fig. 6, 1854, *Cicada*.Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen* (as var. of *rimosa*).Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Cicada*.Osborn, Proc. Ia. Acad. Sci., iii, p. 202, 1895, *Tibicen*.Smith and Grossbeck, Ent. News, xviii, p. 129, 1907, *Tibicen*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 38, 1915.

†*rimosa*? Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1895, *Tibicen*.

Localities: Ont., N. Y., Pa., Ia.

1524. *Okanagana vandykei* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 38, 1915.

Locality: Calif.

1525. *Okanagana californica* Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 39, 1915.

Locality: Calif.

1526. *Okanagana striatipes* (Hald.)Haldeman, Stansbury's Exped. Salt Lake, p. 369, pl. 9, fig. 2, 1852, *Cicada*.Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 39, 1915.

Localities: Utah, Calif., Ore.

1527. *Okanagana triangulata* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 14, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.

Locality: Calif.

1528. *Okanagana mercedita* Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 16, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.

Locality: Calif.

1529. *Okanagana synodica* (Say)Say, Jl. Acad. Nat. Sci. Phila., iv, p. 334, 1825; Compl. Writ., ii, p. 253, *Cicada*.Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876; iii, p. 455, 1877, *Cicada*.Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332, *Cicada*.

- Woodworth, Psyche, v, p. 68, 1888, *Tibicen*.
 Gillette and Baker, Hemip. Colo., p. 64, 1895, *Tibicen*.
 Macgillivray, Can. Ent., xxxiii, p. 78, 1901, *Tibicen*.
 Distant, Cat. Homop., Cicadidae, p. 126, 1906.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.
 Localities: Colo., N. Mex.

1530. **Okanagana fratercula** Davis

- Davis, Jl. N. Y. Ent. Soc., xxiii, p. 20, 1915.
 Locality: Utah.

1530½. **Okanagana oregona** Davis

- Davis, Jl. N. Y. Ent. Soc., xxiv, p. 233, pl. 11, fig. 1, 1916.
 Locality: Oregon.

1531. **Okanagana uncinata** Van D.

- Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 41, 1915.
 Locality: Calif.

1532. **Okanagana minuta** Davis

- Davis, Jl. N. Y. Ent. Soc., xxiii, p. 17, 1915.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 42, 1915.
 Locality: Calif.

Genus **Tibicinoides** Dist.

Orthotype *cupreo-sparsa* (Uhl.)

- Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 27, 43, 1915.
 1533. **Tibicinoides cupreo-sparsus** (Uhl.)

- Uhler, Trans. Md. Acad. Sci., i, p. 43, 1889; p. 161, 1892, *Tibicen*.
 Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina*.
 Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914 (as type of *Tibicinoides*).
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 28, 43, 1915.
 Locality: Calif.

1534. **Tibicinoides hesperius** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada*.
 Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen*.
 Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina*?
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 43, 1915.
 Localities: Colo., Nev., Calif.

Genus **Clidophleps** Van D.

Orthotype *distanti* (Van D.)

- Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 25, 31, 1915.

1535. **Clidophleps blaisdelli** (Uhl.)

- Uhler, Trans. Md. Acad. Sci., i, p. 163, 1892, *Tibicen*.
 Distant, Cat. Homop., Cicadidae, p. 126, 1906, *Okanagana*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1915, *Okanagana*.
 Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.
 Locality: Calif.

1536. *Clidophleps distanti* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.

a. var. *truncata* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.

b. var. *pallida* (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana*.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 33, 1915.

Locality: Calif.

TRIBE *PARNISINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 203, 1905. (Div. *Parnisaria*.)

Distant, Fauna Brit. Ind., Rhyn., iii, p. 168, 1906. (Div. *Parnisaria*.)

Distant, Cat. Homop., Cicadidae, p. 139, 1906. (Div. *Parnisaria*.)

Van Duzee, Check List Hemip., p. 57, 1916.

Genus *Platypedia* Uhl.Logotype *areolata* (Uhl.)

Uhler, Ent. Am., iv, p. 23, 1888.

Woodworth, Psyche, v, p. 67, 1888.

Ashmead, Ent. Am., iv, p. 141, 1888.

Macgillivray, Can. Ent., xxxiii, p. 74, 1901.

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, pp. 204, 209, 1905 (names *areolata*

Distant, Cat. Homop., Cicadidae, pp. 140, 147, 1906. [type].

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 24, 1915.

1537. *Platypedia putnami* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 455, 1877, *Cicada*.

Uhler, Ent. Am., iv, p. 23, 1888.

Gillette and Baker, Hemip. Colo., p. 65, 1895.

Macgillivray, Can. Ent., xxxiii, p. 76, 1901.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 31, 1915.

Localities: Colo., Utah, Nev., Calif., Oreg.

1538. *Platypedia areolata* (Uhl.)

Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 285, 1862, *Cicada*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876, *Cicada*.

Uhler, Ent. Am., iv, p. 23, 1888.

Woodworth, Psyche, v, p. 68, 1888.

Distant, Cat. Homop., Cicadidae, p. 147, 1906.

Essig, Inj. Benef. Ins. Calif., edn. 2, p. 60, 1915.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 30, 1915.

Localities: Utah, Nev., Calif., Wash.

1539. *Platypedia intermedia* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 30, 1915.

Locality: Calif.

1540. *Platypedia ampliata* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 29, 1915.

Locality: Ore.

1541. *Platypedia minor* Uhl.

Uhler, Ent. Am., iv, p. 81, 1888.

Macgillivray, Can. Ent., xxxiii, p. 76, 1901.

Distant, Cat. Homop., Cicadidae, p. 147, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 28, 1915.

Locality: Calif.

1542. *Platypedia aperta* Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 29, 1915.

Locality: Calif.

TRIBE MALAMPSALTINI (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 269, 1905. (Div. *Melampsaltaria*.)Distant, Fauna Brit. Ind., Rhyn., iii, p. 171, 1906. (Div. *Melampsaltaria*.)Distant, Cat. Homop., Cicadidae, p. 163, 1906. (Div. *Melampsaltaria*.)Genus *Melampsalta* Kol.Logotype *musiva* (Germ.)

Kolenati, Melet. Ent., vii, p. 27, 1857.

Stål, Hemip. Afr., iv, pp. 9, 42, 1866.

Sahlbg., Cicadariae, p. 77, 1871.

Woodworth, Psyche, v, pp. 67, 68, 1888.

Ashmead, Ent. Am., iv, p. 141, 1888.

Karsch, Berl. Ent. Zeit., xxxv, pp. 112, 123, 1890.

Distant, Monog. Oriental Cicad., p. 142, 1892.

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 269, 1905.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 171, 1906.

Distant, Cat. Homop., Cicadidae, p. 163, 1906.

Oshanin, Kat. Palae. Hemip., p. 96, 1912.

Cicadetta Kolenati, Melet. Ent., vii, p. 19, 1857.

Fieber, Kat. Eur. Cicad., p. 1, 1872.

Fieber, Cicad. d'Eur., i, p. 52, 1875; ii, p. 50, 1876.

Mayr, Tabellen, i, p. 15, 1884.

Meliehar, Cicad. Mitt. Eur., p. 8, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 17, 1896.

Oshanin, Verz. Palae. Hemip., ii, p. 13, 1906.

Tettigetta Kolenati, Melet. Ent., vii, p. 24, 1857.1543. *Melampsalta calliope* (Walk.)Walker, List Homop., i, p. 212, 1850, *Cicada*.Kirkaldy, Can. Ent., xli, p. 390, 1909, *Cicada*.||*parvula* (Say), Jl. Acad. Nat. Sci., Phila., iv, p. 233, 1825; Compl. Writ.,[ii, p. 253, *Cicada* (not. Fabr. 1798).]Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 455, 1877, *Cicada*.Uhler, Ent. Am., iv, p. 22, 1888, *Carincta*.

Woodworth, Psyche, v, p. 68, 1888.

Uhler, Trans. Md. Acad. Sci., i, p. 165, 1892.

Gillette and Baker, Hemip. Colo., p. 65, 1895.

Macgillivray, Can. Ent., xxxiii, p. 76, 1901.

Distant, Cat. Homop., Cicadidae, p. 177, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Carineta*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915. [1776].

pallescens (Germar), Thon, Ent. Archiv., ii, p. 8, 1830, *Cicada* (not Muller,
Localities: N. J., N. C., Ga., Fla., Tenn., La., Ark., Ill., Neb., Kans.,
Ia., Colo., Texas.

Family CERCOPIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Cercopida*.

Harris, Rept. Ins. Mass., p. 182, 1841, *Cercopididae*.

Fitch, Homop. N. Y. St. Cab., p. 52, 1851.

Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Cercopina*.

Dohrn, Cat. Hemip., p. 68, 1859, *Cercopina*.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 224, 1862, *Cercopididae*.

Stål, Hemip. Afr., iv, p. 54, 1866, *Cercopida*.

Kirschbaum, Cicad. v. Wiesbd., pp. 9, 61, 1868, *Cercopina*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 718, 1870, *Cercopina*.

Sahlberg, Cicad., pp. 65, 80, 1871, *Cercopina*.

Fieber, Cicad. d'Eur., i, p. 41, 1875, *Cercopida*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876.

Berg, Hemip. Arg., p. 231, 1879.

Uhler, Stand. Nat. Hist., ii, p. 242, 1884, *Cercopida*.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 96.

Ashmead, Ent. Am., iv, p. 67, 1888.

Hansen, Ent. Tidskr., xi, p. 64, etc., 1890 (morphology).

Kirkaldy, Entomol., xxxiii, pp. 117, 337, 1900; xxxiv, p. 152; 1901; xxxv, p.
[216, 1902 (transl. of Hansen, 1890).

Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 483, 1895. (Key and catalogue.)

Melichar, Cicad. Mitt. Eur., p. 113, 1896.

Fowler, Biol. Centr. Am., Homop., ii, p. 174, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 204.

Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, pp. 296, 379, 1906.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 79, 1908.

Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911.

Lallemand, Genera Ins., fasc. 143, p. 5, 1912 (synoptic).

Metcalfe, Ann. Ent. Soc. Am., x, p. 27, 1917 (wing venation).

Laevipedes Amyot and Serville, Hémip., pp. lxii, 553, 1843. (Race.)

Walker, List Homop., iii, p. 637, 1851.

Aptrophoroidae Spinola, Tavola Sinot., p. 56, 1850.

Subfamily CERCOPINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. lxiii, 558, 1843, *Cercopides*. (Groupe.)

Dohrn, Cat. Hemip., p. 69, 1859, *Cercopidae*.

Stål, Hemip. Afr., iv, p. 55, 1866, *Cercopida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 718, 1870, *Cercopina*.

Berg, Hemip. Arg., p. 231, 1879, *Cercopina*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Cercopida*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 483, 1895.

Fowler, Biol. Centr. Am., Homop., ii, p. 174, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 207.

Distant, Fauna Brit. Ind. Rhyn., iv, pp. 79, 109, 1908.

Lallemand, Genera Ins., fasc. 143, pp. 6, 73, 1912.

Rhinaulacinae Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.

Genus **Monecphora** Am. & Serv.

Logotype *cingulata* (L. & S.)

Amyot and Serville, Hémip., p. 562, 1843.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 484, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.

Tomaspis (part) Stål, Stet. Ent. Zeit., xxv, p. 63, 1864.

Stål, Hemip. Afr., iv, p. 56, 1866.

Berg, Hemip. Arg., p. 232, 1879.

Fowler, Biol. Centr. Am., Homop., ii, p. 175, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 207.

Distant, Ann. Mag. Nat. Hist., ser. 8, iii, p. 192, 1909.

Lallemand, Genera Ins., fasc. 143, p. 89, 1912.

1544. **Monecphora schach** (Fabr.)

Fabricius, Ent. Syst., iv, p. 49, 1794, *Cercopis*.

Fabricius, Syst. Rhyn., p. 93, 1803, *Cercopis*.

Stål, Hemip. Fabr., ii, p. 118, 1869, *Tomaspis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.

Lallemand, Genera Ins., fasc. 143, p. 97, 1912.

Van Duzee, Check List Hemip., p. 57, 1916.

Locality: "N. Am."

1545. **Monecphora bicincta** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 303, 1831; Compl. Writ., ii, p. 381, *Cercopis*.

Walker, List Homop., iv, p. 1152, 1852, *Triccephora*?

[*copis*.]

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 389, 1856.

Stål, Stet. Ent. Zeit., xxv, p. 64, 1864, *Tomaspis*.

Glover, Rept. U. S. Dept. Ag. for 1876, p. 30.

Uhler, Stand. Nat. Hist., ii, p. 242, 1884, *Tomaspis*.

Van Duzee, Psyche, v, p. 388, 1890.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 207, *Tomaspis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 50, 1907, ix, p. 204, 1909,

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

[*Tomaspis*.]

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.

Lallemand, Genera Ins., fasc. 143, p. 91, 1912, *Tomaspis*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914, *Tomaspis*.

bifascia Walker, List Homop., iii, p. 679, 1851.

Fowler, Biol. Centr. Am., Homop., ii, p. 180, 1897, *Tomaspis*.

angusta Walker, List Homop., iii, p. 680, 1851.

neglecta Walker, List Homop., iii, p. 683, 1851.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915, *Tomaspis*.

rubra Fowler, Biol. Centr. Am., Homop., ii, p. 183, 1897 (part).

a. var. **ignipecta** Fitch.

Harris, Cat. Ins. Mass. in Hitchcock, Geol. Mass., p. 584, 1833, *Cercopis* (name

Harris, Rept. Ins. Mass., p. 182, 1841, *Cercopis* (name only).

[only].

Walker, List Homop., iii, p. 725, 1851, *Ptyelus* (name only).

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 389, 1856 (described).

Ball, Rept. Ia. Acad. Sci. for 1898, p. 208, *Tomaspis*.

Localities: Mass., Conn., N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Ga., Fla., La., Ia., Kans., Ark., Texas. (Mexico, West Indies.)

Subfamily APHROPHORINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. lxiii, 563, 1843, *Aphrophorides*. (Groupe)

Dohrn, Cat. Hemip., p. 68, 1859, *Aphrophoridac*.

Stål, Hemip. Afr., iv, pp. 55, 66, 1866, *Aphrophorida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 722, 1870, *Aphrophorina*.

Berg, Hemip. Arg., p. 238, 1879, *Aphrophorina*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Aphrophorina*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 489, 1895.

Ball, Rept. Ia. Acad. Sci. for 1898, pp. 207, 209.

Distant, Fauna Brit. Ind., Rhyn., iv, pp. 79, 85, 1908.

Oshanin, Kat. Palae., Hemip., p. 97, 1912.

Lallemand, Genera Ins., fasc. 143, pp. 6, 18, 1912.

Ptyclinae Fowler, Biol. Centr. Am., Homop., ii, p. 174, 190, 1897.

†*Cercopinae* Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.

Genus *Aphrophora* Germ.

Logotype *spumaria* (Linn.) = *alni* (Fall.)

Germar, Mag. d. Ent., iv, pp. 38, 48, 1821.

Germar, Silb. Rev. Ent., i, p. 179, 1833.

Burmeister, Handb. d. Ent., ii, p. 121, 1835.

Amyot and Serville, Hémip., p. 563, 1843.

Walker, List Homop., iii, p. 697, 1851.

Flor, Rhyn. Livl., ii, p. 132, 1861.

Stål, Hemip. Afr., iv, p. 67, 1866.

Kirschbaum, Cicad. v. Wiesbd., p. 13, 1868.

Sahlberg, Cicad., p. 85, 1871.

Fieber, Cicad. d'Eur., i, p. 95, 1875.

Mayr, Tabellen, p. 24, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 97.

Provancher, Pet. Faune Ent. Can., iii, p. 254, 1889.

Edwards, Hemip. Homop., Brit. Isds., p. 78, 1894.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, pp. 484, 491, 1895.

Melichar, Cicad. Mitt. Eur., p. 118, 1896.

Fowler, Biol. Centr. Am., Homop., ii, p. 193, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 209.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 99, 1908.

Oshanin, Kat. Palae., Hemip., p. 97, 1912.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 506, 1912.

†*Cercopis* Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.

Lallemand, Genera Ins., fasc. 143, p. 58, 1912.

1546. *Aphrophora quadrinotata* Say

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 304, 1831; Compl. Writ., ii, p. 381.

Fitch, Homop. N. Y. St. Cab., p. 52, 1851.

Walker, List Homop., iv, p. 1154, 1852, *Ptyelus*?

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856.

Glover, Rept. U. S. Dept. Ag. for 1876, p. 31.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878.

Van Duzee, Can. Ent., xxi, p. 8, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 256, 1889.

Van Duzee, Psyche, v, p. 388, 1890.

Harrington, Ottawa Nat., vi, p. 31, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 211.

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Van Duzee, Can. Ent., xl, p. 115, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

Lallemand, Genera Ins., fasc. 143, p. 61, 1912, *Cercopis*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

facialis Walker, Ins. Saund., Homop., p. 93, 1858.

Lallemand, Genera Ins., fasc. 143, p. 60, 1912.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md.,

D. C., N. C., Ga., Fla., Ohio, Ill., Ia., N. Dak., Neb.

1547. *Aphrophora angulata* Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 212.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).

Locality: Calif.

1548. *Aphrophora parallela* (Say)

Say, Long's 2d Exp., ii, p. 303, 1824; Compl. Writ., i, p. 202, *Cercopis*.

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382.

Harris, Rept. Ins. Mass., p. 182, 1841.

Fitch, Homop. N. Y. St. Cab., p. 53, 1851, *Lepyronia*.

Walker, List Homop., iii, p. 713, 1851, *Ptyelus*.

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856; xvii, p. 737, 1857.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862.

Uhler, Stand. Nat. Hist., ii, p. 243, 1884.

Van Duzee, Can. Ent., xxi, p. 8, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 255, 1889.

Van Duzee, Psyche, v, p. 388, 1890.

Packard, 5th Rept. U. S. Ent. Comm., p. 741, 1890.

Harrington, Ottawa Nat., vi, p. 31, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 213.

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.

Van Duzee, Can. Ent., xxxviii, p. 409, 1906.

Felt, 7th Rept. N. Y. St. Forest, Fish, Game Comm., p. 508, pl. 12, fig. 22, 1908.

Van Duzee, Can. Ent., xl, p. 115, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

Lallemand, Genera Ins., fasc. 143, p. 61, 1912, *Cercopis*.

cribratus Walker, List Homop., iii, p. 712, 1851, *Ptyelus*.

Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862.

Localities: Nov. Scot., Quebec, Ont., Vt., Mass., N. Y., N. J., Pa., Md., Mich., Ill., Mo., Ark.

1549. *Aphrophora irrorata* Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 214.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

Localities: Neb., Colo., N. Mex., Ariz., Calif., Br. Col.

1550. *Aphrophora permutata* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 472 (MS name).

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876 (described).

Uhler, Stand. Nat. Hist., ii, p. 243, 1884.

Gillette and Baker, Hemip. Colo., p. 71, 1895.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 214.

Ball, Ohio Nat., i, p. 123, 1901 (larvae).

Lallemand, Genera Ins., fasc. 143, p. 61, pl. 2, fig. 11, 1912, *Cercopis*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

Localities: Colo., N. Mex., Utah, Idaho, Mont., Calif., Wash., Ore.

1551. *Aphrophora saratogensis* (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 53, 1851, *Lepyronia*.

Walker, List Homop., iv, p. 1153, 1852, *Ptyelus*.

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856; xvii, p. 738, 1857.

Van Duzee, Can. Ent., xxi, p. 8, 1889.

Van Duzee, Psyche, v, p. 390, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 215.

Van Duzee, Can. Ent., xxxviii, p. 409, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

Lallemand, Genera Ins., fasc. 143, p. 62, 1912, *Cercopis*.

Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

detritus Walker, List Homop., iii, p. 713, 1851, *Ptyelus*.

Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862, *Ptyelus*.

gelidus Walker, List Homop., iii, p. 714, 1851, *Ptyelus*.

Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862, *Ptyelus*.

Localities: Nov. Scot., Ont., N. H., Mass., N. Y., N. J., Md., D. C.,

W. Va., N. C., Ga, Fla

1552. *Aphrophora annulata* Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 216.

Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).

Locality: Utah.

1553. *Aphrophora signoreti* Fh.

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856.

Lintner, 5th Rept. N. Y. St. Ent., p. 245, 1889.

Van Duzee, Psyche, v, p. 390, 1890.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 217.

Van Duzee, Can. Ent., xl, p. 115, 1908.

Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

Localities: Ont., N. Y., N. C.

1554. *Aphrophora corticea* Germ.

Germar, Mag. d. Ent., iv, p. 50, 1821.

Boheman, Vet. Akad. Handl. for 1847, p. 24.

Stål, Stet. Ent. Zeit., xix, p. 197, 1858.

- Kirschbaum, Cicad. v. Wiesbd., p. 64, 1868.
 Sahlberg, Cicad. p. 86, 1871.
 Melichar, Cicad. Mitt. Eur., p. 119, 1896.
 Ashmead, Harriman Alaska Exp., viii, p. 131, 1904.
 Localities: Alaska. (Europe.)

Genus **Lepyronia** Am. & Serv.

Logotype *coleoptrata* (Linn.)

- Amyot and Serville, Hémip., p. 567, 1843.
 Flor, Rhyn. Livl., ii, p. 122, 1861.
 Stål, Stet. Ent. Zeit., xxv, p. 67, 1864.
 Stål, Hemip. Afr., iv, p. 66, 1866.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 722, 1870.
 Sahlberg, Cicad., p. 82, 1871.
 Fieber, Cicad. d'Eur., i, p. 95, 1875.
 Mayr, Tabellen, p. 24, 1884.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 484, 1895.
 Melichar, Cicad. Mitt. Eur., pp. 114, 117, 1896.
 Fowler, Biol. Centr. Am., Homop., ii, p. 192, 1897.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 217.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 97, 1908.
 Lallemand, Genera Ins., fasc. 143, pp. 51, 52, 1912.

1555. **Lepyronia quadrangularis** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 338, 1825; Compl. Writ., ii, p. 256,
 [Cercopis.
 Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382,
 Harris, Rept. Ins. Mass., p. 182, 1841, *Aphrophora*. [Aphrophora.
 Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
 Walker, List Homop., iii, p. 716, 1851, *Ptyelus*.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 389, 1856.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862, *Aphrophora*.
 Stål, Berl. Ent. Zeit., x, p. 384, 1866.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 346, 1876; iii, p. 457, 1877, *Aphro-*
 Uhler, Stand. Nat. Hist., ii, p. 243, 1884, *Aphrophora*. [phora.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 256, 1889, *Aphrophora*.
 Van Duzee, Psyche, v, p. 388, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
 Gillette and Baker, Hemip. Colo., p. 71, 1895.
 Comstock, Manual Study Ins., p. 153, fig. 187, 1895.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 218.
 Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
 Van Duzee, Can. Ent., xl, p. 115, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Lallemand, Genera Ins., fasc. 143, p. 52, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
 Localities: Nov. Scot., Quebec, Ont., Me., N. H., Vt., Mass., Conn.,
 N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Ga., Fla., Miss.,
 Ohio, Ia., Dak., Neb., Colo., Manitoba, Utah, Texas.

1556. *Lepyronia angulifera* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 348, 1876.
 Gillette and Baker, Hemip. Colo., p. 71, 1895.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 219.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 204, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: N. J., Md., Fla., Texas, N. Mex. (Cuba, Mexico.)

1557. *Lepyronia gibbosa* Ball

- Ball, Rept. Ia. Acad. Sci. for 1898, p. 219.
sordida Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 489, 1895.
 Localities: Ill., Ia., Neb., Texas. (Mexico.)

? *Lepyronia coleoptrata* (Linn.)

(Oshanin credits this species to North America, but I am unable now to trace his authority. If found here it is probably Alaskan.)

Genus *Philaronia* Ball
 Logotype *bilineata* (Say)

- Ball, Rept. Ia. Acad. Sci. for 1898, p. 220.
 Lallemand, Genera Ins., fasc. 143, p. 38, 1912.

1558. *Philaronia abjecta* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 346, 1876, *Philacnus*.
 Baker, Can. Ent., xxix, p. 111, 1897, *Philacnus*.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 221.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).
 †*angulifera* Gillette and Baker, Hemip. Colo., p. 71, 1895, *Lepyronia*.
 Localities: Neb., S. D., Colo., Utah, Ariz., Manitoba, Alaska.

1559. *Philaronia bilineata* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 304, 1831; Compl. Writ., ii, p. 381,
 Walker, List Homop., iv, p. 1154, 1852, *Ptyclus*. [Aphrophora.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876, *Philacnus* (as var. of
 Baker, Can. Ent., xxix, p. 112, 1897, *Philacnus*. [lincatus).
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 222.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Van Duzee, Can. Ent., xl, p. 115, 1908.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 †*lincatus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877; iv, p. 510,
 Van Duzee, Psyche, v, p. 388, 1890, *Philacnus*. [1878, *Philacnus*.
 Gillette and Baker, Hemip. Colo., p. 70, 1895, *Philacnus*.
americanus Baker, Can. Ent., xxix, p. 112, 1897, *Philacnus*.
 Localities: Quebec, Ont., Me., N. H., Mass., Conn., S. Dak., Ia.,
 Neb., Colo., Mont., Wyo., Idaho, N.W. Can.

Genus *Philaenus* Stål

Logotype *spumarius* (Fall.) = *leucophthalmus* (Linn.)

- Stål, Stet. Ent. Zeit., xxv, p. 66, 1864.
 Stål, Hemip. Afr., iv, pp. 68, 77, 1866.

- Sahlberg, Cicad., pp. 66, 88, 1871.
 Fieber, Cicad. d'Eur., i, p. 95, 1875.
 Mayr, Tabellen, p. 24, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 98.
 Provancher, Pet. Faune Ent. Can., iii, p. 257, 1889.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 485, 1895.
 Melichar, Cicad. Mitt. Eur., p. 121, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 79, 1896.
 Fowler, Biol. Centr. Am., Homop., ii, pp. 190, 193, 1897.
 Ball, Rept. Ia. Acad. Sci. for 1898, pp. 209, 223.
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.
 †*Ptyela* Germar, Silb. Rev. Ent., i, p. 179, 1833.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 87, 1908.
 Lallemand, Genéra Ins., fasc. 143, p. 30, 1912, *Ptyelus* (part).
 †*Cercopis* Kirkaldy, Entomol., xxxiii, p. 263, 1900.

1560. *Philaenus leucophthalmus* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.
 Linnaeus, Faune Suec., p. 241, sp. 883, 1761, *Cicada*.
 Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2106, 1788, *Cicada*.
 Fabricius, Mant. Ins., ii, p. 210, 1787, *Cicada*.
 Fabricius, Ent. Syst., iv, p. 52, 1794, *Cicada*.
 Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis*.
 Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora*.
 Fallén, Hemip. Suec., Cicad., p. 17, 1826, *Cercopis*.
 Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.
 Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus*.
 Sahlberg, Cicad., p. 90, 1871.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
 Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
 Melichar, Cicad. Mitt. Eur., p. 123, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908.
 Lallemand, Genera Ins., fasc. 143, p. 36, 1912, *Ptyelus* (as variety).
a. var. falleni Van D.
 Van Duzee, Can. Ent., xlv, p. 388, 1915 (n.n. for *spumarius* Fall.).
 Van Duzee, Check List Hemip., p. 57, 1916.
 †*spumarius* Fallén, Hemip. Suec., Cicad., p. 14, 1826, *Cercopis*.
 Zetterstedt, Fauna Lapp., p. 514, 1828, *Cercopis*.
 Flor, Rhyn. Livl., ii, p. 126, 1861, *Ptyelus*.
 Kirschbaum, Cicad. v. Wiesbd., p. 66, 1868, *Ptyelus*.
 Stål, Hemip. Fabr., ii, p. 15, 1869.
 Sahlberg, Cicad., p. 89, 1871.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876.
 Provancher, Pet. Faune Ent. Can., iii, p. 257, 1889.
 Lintner, 5th Rept. N. Y. St. Ent., p. 245, 1889.
 Van Duzee, Psyche, v, p. 240, 1890.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 496, 1895.
 Melichar, Cicad. Mitt. Eur., p. 122, 1896.
 Baker, Can. Ent., xxix, p. 111, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 224.

Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

Lallemand, Genera Ins., fasc. 143, p. 35, 1912, *Ptyelus* (as species).

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

†*bifasciatus* (Fabricius), Syst. Rhyng., p. 98, 1803, *Cercopis*. (Not of Linnaeus; see Stål, Hemip. Fabr., ii, p. 16.)

Germer, Mag. d. Ent., iv, p. 51, 1821, *Aphrophora*.

Burmeister, Handb. d. Ent., ii, p. 122, 1835, *Aphrophora*.

Blanchard, Hist. des Ins., Hémip., p. 189, 1840, *Aphrophora*.

Walker, List Homop., iii, p. 719, 1851, *Ptyelus*.

b. var. ustulatus (Fall.)

Fallén, Hemip. Suec., Cicad., p. 19, 1826, *Cercopis*.

Sahlberg, Cicad., p. 91, 1871.

Melichar, Cicad. Mitt. Eur., p. 122, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 80, pl. 9, fig. 4, 1896.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

c. var. lateralis (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.

Linnaeus, Fauna Suec., p. 241, sp. 886, 1761, *Cicada*.

Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.

Fabricius, Ent. Syst., iv, p. 35, 1794, *Cicada*.

Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis*.

Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis*.

Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.

Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus*.

Sahlberg, Cicad., p. 90, 1871.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.

Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.

Melichar, Cicad. Mitt. Eur., p. 123, 1896.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

d. var. leucocephalus (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.

Linnaeus, Fauna Suec., p. 241, sp. 885, 1761, *Cicada*.

Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.

Fabricius, Mant. Ins., ii, p. 210, 1787, *Cicada*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2106, 1788, *Cicada*.

Fabricius, Ent. Syst., iv, p. 52, 1794, *Cercopis*.

Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis*.

Germer, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora*.

Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis*.

Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.

Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus*.

Sahlberg, Cicad., p. 90, 1871.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.

Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.

Melichar, Cicad. Mitt. Eur., p. 123, 1896.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

albiceps Provancher, Nat. Can., iv, p. 351, 1872, *Ptyelus*.

Provancher, Pet. Faune Ent. Can., iii, p. 258, 1889.

c. var. **marginellus** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 52, 1794, *Cercopis*.
 Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis*.
 Germar, Mag. d. Ent., iv, p. 54, 1821, *Aphrophora*.
 Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis*.
 Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.
 Sahlberg, Cicad., p. 91, 1871.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
 Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
 Melichar, Cicad. Mitt. Eur., p. 123, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

f. var. **fasciatus** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 55, 1794, *Cercopis*.
 Fabricius, Syst. Rhyng., p. 97, 1803, *Cercopis*.
 Flor, Rhyn. Livl., ii, p. 127, 1861, *Ptyclus*.
 Sahlberg, Cicad., p. 90, 1871.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
 Edwards, Hemip. Homop. Brit. Isds., p. 79, 1886.
 Melichar, Cicad. Mitt. Eur., p. 123, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

g. var. **fabricii** Van. D.

- Van Duzee, Can. Ent., xlv, p. 388, 1915.
 Van Duzee, Check List Hemip., p. 58, 1916.
 ||*lineatus* (Fabricius), Ent. Syst., iv, p. 52, 1794, *Cercopis*.
 Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis*.
 Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora*.
 Fallén, Hemip. Suec., Cicad., p. 19, 1826, *Cercopis*.
 Zetterstedt, Fauna Lapp., p. 516, 1828, *Cercopis*.
 Flor, Rhyn. Livl., ii, p. 129, 1861, *Ptyclus*.
 Sahlberg, Cicad., p. 91, 1871.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
 Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
 Melichar, Cicad. Mitt. Eur., p. 123, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
 ?*ocnotherae* (Scopoli), Ent. Carn., p. 114, 1763, *Cicada*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.

h. var. **pallidus** (Zett.)

- Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.
 Zetterstedt, Ins. Lapp., column 286, 1840, *Cercopis*.
 Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyclus*.
 Melichar, Cicad. Mitt. Eur., p. 123, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
 †*ocnotherae* Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora*.
 Localities: Quebec, Ont., Me., N. Y., N. J., N. C., Dak., Utah, Manitoba, Alaska.

1561. **Philaenus lineatus** (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada*.
 Linnaeus, Fauna Suec., p. 241, sp. 888, 1761, *Cicada*.
 Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.

- Scopoli, Ent. Carn., p. 144, 1763, *Cicada*.
 Fallén, Hemip. Suec. Cicad., p. 20, 1826, *Cercopis*.
 Burmeister, Hand. d. Ent., ii, p. 123, 1835, *Aphrophora*.
 Flor, Rhyn. Livl., ii, p. 123, 1861, *Ptyclus*.
 Kirschbaum, Cicad. v. Wiesbd., p. 65, 1868.
 Stål, Hemip. Fabr., ii, p. 16, 1869.
 Sahlberg, Cicad., p. 96, 1871.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876; iv, p. 510, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 100.
 Lintner, 4th Rept. N. Y. St. Ent., p. 120, 1888.
 Provancher, Pet. Faune Ent. Can., iii, p. 258, 1889.
 Gillette and Baker, Hemip. Colo., p. 70, 1895.
 Edwards, Hemip. Homop. Brit. Isds., p. 81, pl. 9, fig. 10, 1896.
 Melichar, Cicad. Mitt. Eur., p. 124, 1896.
 Baker, Can. Ent., xxix, p. 112, 1897.
 Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Lallemand, Genera Ins., fasc. 143, p. 34, 1912, *Ptyclus*.
 abbreviata (Fabricius), Ent. Syst., iv, p. 36, 1794, *Cicada*.
 Fabricius, Syst. Rhyn., p. 96, 1803, *Cercopis*.
 Germar, Mag. d. Ent., iv, p. 54, 1821, *Aphrophora*.
 basivitta (Walker), List. Homop., iii, p. 719, 1851, *Ptyclus*.
 Localities: Nova Scot., Quebec, Ont., Me., N. H., Vt., Mass., N. Y.,
 N. J.

Genus **Clastoptera** Germ.

Logotype *achatina* Germ.

- Germar, Zeit. f. Ent., i, p. 187, 1838.
 Walker, List. Homop., iii, p. 842, 1851.
 Stål, Hemip. Afr., iv, p. 69, 1866.
 Uhler, Stand. Nat. Hist., ii, p. 244, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 259, 1889.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 485, 1895.
 Ball, Proc. Ia. Acad. Sci., iii, p. 183, 1895.
 Fowler, Biol. Centr. Am., Homop., ii, p. 198, 1897.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
 Lallemand, Genera Ins., fasc. 143, p. 22, 1912.

1562. **Clastoptera obtusa** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 339, 1825; Compl. Writ., ii, p. 256,
 Harris, Rept. Ins. Mass., p. 182, 1841, *Aphrophora*. [Cercopis.
 Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
 Walker, List Homop., iii, p. 724, 1851; iv, p. 1154, 1852, *Ptyclus*.
 Fitch, Trans. N. Y. St. Ag. Soc., xvi, pp. 389, 466, 474, 1856.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862, *Aphrophora*.
 Uhler, Stand. Nat. Hist., ii, p. 244, 1884.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Lintner, 5th Rept. N. Y. St. Ent., p. 242, 1889.

- Provancher, Pet. Faune Ent. Can., iii, p. 259, 1889.
 Van Duzee, Psyche, v, p. 388, 1890.
 Lintner, 8th Rept. N. Y. St. Ent., p. 152, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
 Gillette and Baker, Hemip. Colo., p. 70, 1895.
 Ball, Proc. Ia. Acad. Sci., iii, p. 188, 1895.
 Fowler, Biol. Centr. Am., Homop., ii, p. 202. pl. 12, figs. 23, 24, 1898.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
 Van Duzee, Can. Ent., xl, p. 115, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Lallemand, Genera Ins., fasc. 143, p. 23, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
 †*lineaticollis* Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
 Lallemand, Genera Ins., fasc. 143, pl. 1, fig. 2, 1912.
 [†*lineata* Sign. MS], Lallemand, Genera Ins., fasc. 143, p. 24, 1912.
 [†*orbiculata* Sign. MS], Lallemand, Genera Ins., fasc. 143, p. 24, 1912.

a. var. *achatina* Germ.

- Germar, Zeit. f. Ent., i, p. 187, 1839.
 Fitch, Cat. Homop. N. Y. St. Cab., p. 53, 1851.
 Walker, List Homop., iii, p. 842, 1851; iv, p. 1160, 1852.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

b. var. *testacea* Fitch.

- Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
 Walker, List Homop., iv, p. 1160, 1852.
 Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857.
 Van Duzee, Psyche, v, p. 388, 1890.
 Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
 Baker, Ent. News, xi, p. 463, 1900.
 Lallemand, Genera Ins., fasc. 143, p. 24, 1912.

c. var. *tristis* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 †*achatina* Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
 †*proteus* Provancher, Pet. Faune Ent. Can., iii, p. 260, 1889.
 Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., D. C.,
 Va., W. Va., N. C., Ohio, Ia., Kans., Colo., Texas, N. Mex., Calif.

1563. *Clastoptera osborni* Gill. & Bak.

- Gillette and Baker, Hemip. Colo., p. 70, 1895.
 Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895 (as var. of *obtusa*).
 Baker, Ent. News, xi, p. 463, 1900.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
 Lallemand, Genera Ins., fasc. 143, p. 24, 1912.
 †*obtusa* Van Duzee, Trans. Am. Ent. Soc., xxiv, p. 111, 1903.
 Localities: Colo., N. Mex., Ariz.

1564. *Clastoptera delicata* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 348, 1876; iii, p. 458, 1877.

Gillette and Baker, Hemip. Colo., p. 70, 1895.

Ball, Proc. Ia. Acad. Sci., iii, p. 184, 1895.

†*lincaticollis* Baker, Ent. News, xi, p. 463, 1900.

Locality: Colo.

1565. *Clastoptera xanthocephala* Germ.

Germar, Zeit. f. Ent., i, p. 189, 1839.

Walker, List Homop., iii, p. 843, 1851.

Ball, Proc. Ia. Acad. Sci., iii, p. 188, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.

Lallemand, Genera Ins., fasc. 143, p. 26, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

a. var. *glauca* Van D.

Heidemann, Proc. Ent. Soc. Wash., iv, p. 399, 1901 (nomen nudum. Habits).

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: Pa., N. J., D. C., N. C., Ga., Fla., Ala., Miss., N. Mex., Texas, Ariz.

1566. *Clastoptera proteus* Fitch

Fitch, Homop. N. Y. St. Cab., p. 54, 1851.

Walker, List Homop., iv, p. 1160, 1852.

Flint in Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862.

Uhler, Stand. Nat. Hist., ii, p. 244, 1884.

Van Duzee, Can. Ent., xxi, p. 8, 1889.

Van Duzee, Psyche, v, p. 388, 1890.

Harrington, Ottawa Nat., vi, p. 31, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.

Ball, Proc. Ia. Acad. Sci., iii, p. 186, 1895.

Baker, Ent. News, xi, p. 463, 1900.

Van Duzee, 20th Rept. N. Y. Ent. Soc., p. 553, 1905.

Van Duzee, Can. Ent., xxxviii, p. 409, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.

Lallemand, Genera Ins., fasc. 143, p. 24, pl. 1, fig. 1, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

saint-cyri Provancher, Nat. Can., iv, p. 351, 1872.

Provancher, Pet. Faune Ent. Can., iii, p. 260, 1889.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.

Van Duzee, Check List Hemip., p. 58, 1912 (as var. a of *proteus*).

flava Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.

b. var. vittata Ball

- Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.

c. var. pini Fitch

- Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
 Walker, List Homop., iv, p. 1160, 1852.
 Fitch, Trans. N. Y. St. Ag. Soc., xvii, p. 738, 1857.
 Van Duzee, Psyche, v, p. 388, 1890.
 Lintner, 8th Rept. N. Y. St. Ent., p. 153, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.
 ||*nigra* Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.
 Van Duzee, Can. Ent., xl, p. 115, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
 Localities: Quebec, Ont., N. H., Mass., Conn., N. Y., N. J., Pa.,
 D. C., W. Va., N. C., Fla., Ill., Texas.
 [Subspecies *flavicollis*, *cincticollis*, *maculicollis*, and *nigricollis* of Fitch,
 founded on characters common to all varieties, are untenable.]

1567. *Clastoptera lineatocollis* Stål

- Stål, Of. Vet. Akad. Forh., xi, p. 253, 1854.
 Walker, List Homop., Suppl., p. 260, 1858.
 Stål, Freg. Eugen. Resa, Ins., p. 285, 1859.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
 Lallemand, Genera Ins., fasc. 143, p. 24, 1912 (as synonym of *obtusa*).
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

a. var. lineata Ball

- Ball, Proc. Ia. Acad. Sci., iii, p. 185, 1895.

b. var. binotata Ball

- Ball, Proc. Ia. Acad. Sci., iii, p. 185, 1895.
 Gillette and Baker, Hemip. Colo., p. 70, 1895.
 Baker, Ent. News, xi, p. 463, 1900.
 Lallemand, Genera Ins., fasc. 143, p. 23, 1912.
 Localities: Colo., Utah, N. Mex., Calif.

1568. *Clastoptera unicolor* Fowl.

- Fowler, Biol. Centr. Am., Homop., ii, p. 205, 1897.
 ?[*arkansasensis* Fitch MS], Fowler, Biol. Centr. Am., Homop., ii, p. 205, 1897.
 Localities: Ark.(?). (Mexico, Centr. Am.)

Family MEMBRACIDAE (Germ.)

- Germar, Mag. d. Ent., iv, p. 7, 1821, *Membracides*.
 Latreille, Fam. Nat. Règne Anim., p. 427, 1825, *Membracides*.
 Burmeister, Handb. d. Ent., ii, p. 126, 1835, *Membracina*.
 Curtis, Brit. Ent., xvi, Gen., p. 14, 1840.
 Blanchard, Hist. des Ins., Hémip., p. 179, 1840, *Membraciens*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 235, 1846, *Membracides*.
 Walker, List Homop., ii, p. 472, 1851, *Membracina*.

- Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Membracina*.
 Dohrn, Cat. Hemip., p. 76, 1859.
 Flor, Rhyn. Livl., ii, p. 100, 1861, *Membracina*.
 Stål, Hemip. Afr., iv, p. 83, 1866, *Membracida*.
 Kirschbaum, Cicad. v. Wiesbd., pp. 13, 66, 1868, *Membracina*.
 Sahlberg, Cicad., p. 97, 1871, *Membracina*.
 Fieber, Cicad. d'Eur., i, p. 39, 1875, *Membracida*.
 Berg, Hemip. Arg., p. 238, 1879.
 Provancher, Pet. Faune Ent. Can., iii, p. 225, 1889.
 Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892 (synopsis).
 Fowler, Biol. Centr. Am., Homop., ii, p. 1, 1894.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 391, 1894 (catalogue).
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, p. 9, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 29, 1908 (synoptical; list of species).
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 1, 1908.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911.
 Matusch, Jl. N. Y. Ent. Soc., xix, p. 194, 1911 (parasitization).
 Funkhauser, Ann. Ent. Soc. Am., vi, p. 74, 1913 (wing venation).
 Funkhauser, Bul. Brookl. Ent. Soc., x, p. 45, 1915 (Fitch types).
Cornidorsi Amyot and Serville, Hémip., pp. lix, 532, 1843.
Centrotitae Spinola, Tavola Sinot., pp. 27, 53, 1850.

Subfamily SMILIINAE (Stål)

- Stål, Hemip. Afr., iv, p. 83, 1866, *Smiliida*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867. (Key.)
 Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 86, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 31, 32, 1908, *Smiliida*. (Key.)

TRIBE CERASINI Godg.

- Goding, Trans. Am. Ent. Soc., xix, p. 256, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 32, 1908. (Key.)

Genus *Ceresa* Am. & Serv.

Logotype *vitulus* (Fabr.)

- Amyot and Serville, Hémip., p. 539, 1843.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 283, 1846.
 Walker, List Homop., ii, p. 525, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 552, 1867; xxvi, p. 245, 1869.
 Stål, Hemip. Fabr., ii, p. 24, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 256, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 102, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 32, 1908. (Key.)

1569. *Ceresa patruelis* Stål

- Stål, Stet. Ent. Zeit., xxv, p. 69, 1864 (spelled *patruelis*).
 Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
 Butler, Cist. Ent., ii, p. 217, 1877.
 Fowler, Biol. Centr. Am., Homop., ii, p. 105, 1895 (as synonym of *testacea*).
 Van Duzee, Can. Ent., xli, p. 382, 1909.
 Localities: Fla. (Mexico).

1570. *Ceresa diceros* (Say)

Say, Long's 2d Exped., ii, p. 299, 1824; Compl. Writ., i, p. 199, *Membracis*.

Germar, Silb. Rev. Ent., iii, p. 237, 1835, *Smilia*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 285, 1846.

Fitch, Homop. N. Y. St. Cab., p. 50, 1851.

Walker, List Homop., ii, p. 527, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 16, 1854.

Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876.

Butler, Cist. Ent., ii, p. 215, 1877.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.

Van Duzee, Can. Ent., xxi, p. 6, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 234, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.

Gillette and Baker, Hemip. Colo., p. 66, 1895.

Buckton, Monog. Membr., p. 169, pl. 35, figs. 2, 3, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 35, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 164, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 331, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

postfasciata Amyot and Serville, Hémip., p. 540, pl. 10, fig. 3, 1843.

Localities: Nov. Scot., Quebec, Ont., N. Y., N. J., Pa., Md., N. C.,

Ohio, Ill., Ia., Kans., Mo., Dak., Colo., Texas, N. Mex., Mont.

1571. *Ceresa albescens* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 35, 1908.

Van Duzee, Can. Ent., xli, p. 381, 1909.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.

†*bubalus* var. *a.* and *b.*, Fitch Homop., N. Y. St. Cab., p. 50, 1851.

Localities: Ont., N. Y., Kans.

1572. *Ceresa bubalus* (Fabr.)

Fabricius, Ent. Syst., iv, p. 14, 1794, *Membracis*.

Fabricius, Syst. Rhyng., p. 20, 1803, *Centrotus*.

Walker, List Homop., ii, p. 531, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 17, 1854.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 335, 359, 1856.

Walker, List Homop, Suppl., p. 131, 1858.

Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 889, 1868.

Stål, Hemip. Fabr., ii, p. 24, 1868.

Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.

Riley, 5th Rept. Nox. Ins. Mo., p. 121, 1873.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876; iii, p. 456, 1877.

Butler, Cist. Ent., ii, p. 215, 1877.

- Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
 Riley, Am. Nat., xvi, p. 822, 1882.
 Cooke, Inj. Ins. Orchard, Vineyard, p. 71, 1883.
 Van Duzee, Can. Ent., xxi, p. 6, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 235, 1889.
 Goding, Insect Life, v, p. 92, 1892.
 Slosson, Ent. News, v, p. 5, 1894.
 Marlatt, Insect Life, vii, pp. 8-14, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 402, 1894 (bibliography).
 Gillette and Baker, Hemip. Colo., p. 65, 1895.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 36, 1908.
 Howard, Insect Book, p. 239, 1908. [raphy].
 Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 92, 1910 (life history, bibliography).
 Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 331, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
 Essig, Inj., Benef. Ins. Calif., edn. 2, p. 61, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
‡bubalis Fabricius, Syst. Rhynch., emend. after p. 314, 1803, *Centrotus*.
 Localities: Nov. Scot., Quebec, Ont., N. H., Mass., N. Y., Pa., N. J.,
 Md., Del., N. C., Tenn., Ohio, Ind., Ill., Ia., Minn., Kans., Mo.,
 Dak., Mont., Wyo., Colo., Utah, N. Mex., Texas, Calif.

1573. *Ceresa occidentalis* Funkh.

- Funkhauser, Ent. News, xxvi, p. 100, 1915.
 Locality: Calif.

1574. *Ceresa brevitylus* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 36, 1908; ix, p. 205, 1909.
 Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 Localities: N. J., D. C., N. C., Fla.

1575. *Ceresa stimulea* Van D.

- Van Duzee, Can. Ent., xlvi, p. 388, 1914.
 Van Duzee, Check List Hemip., p. 58, 1916.
‡aculeata Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Locality: Fla.

1576. *Ceresa taurina* Fitch

- Harris, List Ins. Mass. in Hitchcock, Geol. Mass., p. 579, 1833 (MS name).
 Walker, List Homop., ii, p. 495, 1851, *Enchenopa* (a MS name).
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 335, 1856 (described).
 Walker, List Homop., Suppl., p. 131, 1858.

- Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 550, 1869, *Membracis*.
 Butler, Cist. Ent., ii, p. 215, 1877.
 Van Duzee, Psyche, v, p. 388, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci. v, p. 187, 1894.
 Marlatt, Insect Life, vii, p. 8, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 37, 1908.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
 Hodgkiss, N. Y. Exp. Sta., Tech. Bul. 17, p. 100, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
 Matusch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 Localities: Ont., Mass., N. Y., N. J., Pa., Va., N. C., Ohio, Mich.,
 Ia., Kans., Colo., Ariz.

1577. *Ceresa constans* (Walk.)

- Walker, List Homop., ii, p. 563, 1851, *Thelia*.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
 Butler, Cist. Ent., ii, p. 215, 1877.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 37, 1908.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 †*subulata* Provancher, Pet. Faune Ent. Can., iii, p. 338, 1890.
 †*illinoensis* Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 404, 1894.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 Localities: Ont., N. Y., N. C., Ill.

1578. *Ceresa palmeri* Van D.

- Van Duzee, Can. Ent., xl, p. 114, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 38, 1908.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.
 Matusch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 Localities: Quebec, Ont., N. Y., N. C.

1579. *Ceresa borealis* Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 284, 1846.
 Walker, List Homop., ii, p. 526, 1851.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 38, 1908.
 Van Duzee, Can. Ent., xli, p. 381, 1909.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.
 Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 105, 1910 (life history).
 Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
 †*bubalus* Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
 Localities: Ont., N. Y., N. J., Pa., N. C., Ohio, Kans., Colo., Utah.

1580. *Ceresa basalis* Walk.

- Walker, List Homop., ii, p. 527, 1851.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
 Butler, Cist. Ent., ii, p. 215, 1877.

- Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 39, 1908.
 Van Duzee, Can. Ent., xl, p. 114, 1908.
 Cockerell, Univ. Colo. Studies, vii, p. 127, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
†brevicornis Provancher, Pet. Faune Ent. Can., iii, p. 235, 1889 (female).
†scmierema Provancher, Pet. Faune Ent. Can. iii, p. 235, 1889 (male).
melanogaster Osborn, Bul. Nat. Hist. Lab. Ia. St. Mus., ii, p. 390, 1893.
turbida Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 406, 1894.
 Gillette and Baker, Hemip. Colo., p. 66, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
†bubalus Buckton, Monog. Membr., p. 170, pl. 35, fig. 4, 1902. [cephala.
‡semi-brunnea Buckton, Monog. Membr., p. 174, pl. 36, fig. 6, 1902, *Stictoc-*
 Localities: Nov. Scot., Quebec, Ont., N. H., Mass., N. Y., N. J.,
 Ill., Colo., Utah, N. Mex., Calif., Manitoba, Br. Col., Sask.

1581. *Ceresa albido-sparsa* Stål

- Stål, Freg. Eugen. Resa, Ins., p. 283, 1859.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
 Butler, Cist. Ent., ii, p. 215, 1877.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 39, 1908.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
 Localities: Nev., Calif.

1582. *Ceresa brevis* Walk.

- Walker, List Homop., ii, p. 528, 1851.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
 Butler, Cist. Ent., ii, p. 218, 1877.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 40, 1908.
 Localities: N. Y., Colo.(?).

1583. *Ceresa brevicornis* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856.
 Rathvon, in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
 Van Duzee, Psyche, v, p. 388, 1890.
 Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
 Goding, Insect Life, v, p. 92, 1892.
 Goding, Can. Ent., xxv, p. 196, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
 Moore, Can. Ent., xxxix, p. 189, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 40, 1908.
 Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., Ohio, Ill.

1584. *Ceresa femorata* Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 289, 1846.
 Walker, List Homop., ii, p. 532, 1851.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
 Fowler, Biol. Centr. Am., Homop., ii, p. 108, 1895, *Stictoccephala*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 41, 1908.
tacta Walker, List Homop., ii, p. 560, 1851, *Thelia*.
 Localities: Colo., Calif.

1585. *Ceresa uniformis* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 289, 1846.

Walker, List Homop., ii, p. 533, 1851.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 41, 1908.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

Localities: Texas, N. C.(?) (Mexico.)

[May not be distinct from preceding.]

1586. *Ceresa angulata* (Walk.)

Walker, List Homop., ii, p. 558, 1851, *Thelia*.

Butler, Cist. Ent., ii, p. 354, 1878, *Eumela*.

Locality: N. C.

? *Ceresa vitulus* (Fabr.)

Osborn, Ohio Nat., iv, p. 100, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

[Doubtless erroneous determinations.]

Genus *Stictocephala* Stål

Logotype *lutea* Walk.

Stål, Hemip. Fabr., ii, p. 24, 1869.

Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 108, 1895.

Van Duzee, Bul. Buf. Nat. Sci., ix, p. 41, 1908. (Key.)

Van Duzee, Can. Ent., xlv, p. 388, 1915 (names *lutea* type).

[*Zuela* Fitch MS] Goding, Can. Ent., xxv, p. 196, 1893.

1587. *Stictocephala inermis* (Fabr.)

Fabricius, Syst. Ent., p. 677, 1775, *Membracis*.

Goeze, Ent. Beytr., ii, p. 148, 1778, *Membracis*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2093, 1788, *Cicada*.

Fabricius, Ent. Syst., iv, p. 15, 1794, *Membracis*.

Fabricius, Syst. Rhyng., p. 21, 1803, *Centrotus*.

Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia*.

Walker, List Homop., iv, p. 1142, 1852, *Thelia* (under *lutea*).

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 360, 1856, *Smilia*.

Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Smilia*.

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.

Provancher, Pet. Faune Ent. Can., iii, p. 237, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Goding, Insect Life, v, p. 92, 1892.

Townsend, Can. Ent., xxiv, p. 196, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.

Gillette and Baker, Hemip. Colo., p. 67, 1895.

Buckton, Monog. Membr., p. 174, pl. 36, fig. 5, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.

- Felt, 7th Rept. N. Y. St. Fish, Forest, Game Comm., p. 529, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 108, 1910 (life history).
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915. [p. 377, *Membracis goniphora* Say, Jl. Acad. Nat. Sci. Phila., vi, p. 243, 1830; Compl. Writ., ii, *sanguino-apicalis* Goding, Bul. Ill. St. Labr. Nat. Hist., iii, p. 408, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908.
 Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ohio, Ill., Ia., Dak., Kans., Mo., Colo., N. Mex., Ariz., Calif., Mont.

1588. *Stictocephala pacifica* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
 Locality: Calif.

1589. *Stictocephala wickhami* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.
 Localities: Calif., Wash.

1590. *Stictocephala substriata* (Walk.)

- Walker, List Homop., ii, p. 558, 1851, *Thelia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 45, 1908; ix, p. 206, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
 Localities: N. J., N. C., Ga., Fla.

1591. *Stictocephala minuta* Funkh.

- Funkhauser, Ent. News, xxvi, p. 99, 1915.
 Locality: Ga.

1592. *Stictocephala festina* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 243, 1830; Compl. Writ., ii, p. 377.
 Walker, List Homop., iv, p. 1141, 1852 (*festiva*). [Membracis.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
 Van Duzee, Psyche, v, p. 389, 1890.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 45, 1908; ix, p. 206, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
 Wildermuth, Jl. Ag. Research, iii, p. 343, 1915 (life history).
 †*uniformis* Stål, Hemip. Fabr., ii, p. 24, 1869.

a. var. *rufivitta* (Walk.)

- Walker, List Homop., ii, p. 559, 1851, *Thelia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.
 †*dubia* Fowler, Biol. Centr. Am., Homop., ii, p. 109, 1895.
 †*rubrovitta* Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

b. var. angulata Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.

Localities: N. J., Pa., N. C., Va., Ga., Fla., Ala., Miss., La., Kans.,
Mo., Ia., Colo., Texas, Ariz., Calif., Mont. (West Indies.)

1593. ? *Stictocephala rotundata* Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

†*uniformis* Guerin in La Sagra, Hist. de Cuba, vii, p. 434, pl. 13, fig. 20, 1857.

Localities: N. C., Fla. (det. doubtful). (Neotropical.)

1594. *Stictocephala gillettei* Godg.

Goding, Ent. News, iii, pp. 108, 200, 1892.

Gillette and Baker, Hemip. Colo., p. 66, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 47, 1908.

Localities: Colo., Utah, Calif.

1595. *Stictocephala collina* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 47, 1908.

Locality: Colo.

1596. *Stictocephala nigricans* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.

Locality: Calif.

1597. *Stictocephala franciscana* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 284, 1859, *Ceresa*.

Stål, Hemip. Fabr., ii, p. 24, 1869.

Stål, Of. Vet. Akad. Forh., xxvi, p. 247, 1869.

?Gillette and Baker, Hemip. Colo., p. 66, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 48, 1908.

Localities: Calif., Wash., Colo.?

1598. *Stictocephala lutea* (Walk.)

Walker, List Homop., ii, p. 559, 1851, *Thelia*.

Stål, Hemip. Fabr., ii, p. 24, 1869.

Stål, Of. Vet. Akad. Forh., xxvi, p. 247, 1869.

Goding, Insect Life, v, p. 92, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.

Buckton, Monog. Membr., p. 195, pl. 42, fig. 7, 1903.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 49, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

[*Gargara*.

pectoralis Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 12, 1854,

†*festina* Provancher, Pct. Faune Ent. Can., iii, p. 237, 1889.

Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., D. C., N. C., Ga.,
Fla., Ill.

1599. *Stictocephala diminuta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 49, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

Localities: N. C., Fla.

1600. ? *Stictocephala nervosa* Buckt.

Buckton, Monog. Membr., p. 195, pl. 42, fig. 8, 1903 (unrecognizable?).

Locality: "N. Y."

Genus *Stictolobus* Metelf.

Orthotype *subulata* (Say)

Metcalfe, Ent. News, xxvii, p. 2, 1916.

1601. *Stictolobus subulatus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 300, 1831; Compl. Writ., ii, p. 378,

Walker, List Homop., iv, p. 1143, 1852, *Thelia*. [Membracis.]

Van Duzee, Psyche, v, p. 387, 1890, *Membracis*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 410, 1894, *Stictocephala*?

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908, *Stictocephala*?

Metcalfe, Ent. News, xxvii, p. 3, 1916.

Localities: Md., N. C.

Genus *Actualis* Fairm.

Logotype *fuscovenrosa* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 496, 1846.

Stål, Of. Vet. Akad. Forh., xxiv, p. 552, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 113, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908. (Key.)

1602. *Actualis tartarea* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376,

Walker, List Homop., iv, p. 1141, 1852, *Ceresa*. [Membracis.]

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876.

Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915.

Localities: Mass., N. Y., N. J., Pa., D. C., Fla., Ill., Ia., Mo., Colo., Utah.

a. var. *semicrema* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376,

Walker, List Homop., iv, p. 1141, 1852, *Ceresa*. [Membracis.]

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876.

Van Duzee, Psyche, v, p. 389, 1890.

Harrington, Ottawa Nat., vi, p. 30, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908; ix, p. 206, 1909.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 167, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.

- Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915.
anticonigra Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 498, 1846.
 Walker, List Homop., ii, p. 592, 1851.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856.
brunnea Provancher, Nat. Can., iv, p. 320, 1872, *Tragopa*.
 Provancher, Pet. Faune Ent. Can., iii, p. 248, 1889 *Tragopa*.
 Localities: Quebec, Ont., Mass., N. Y., Pa., D. C., N. C., Fla., Miss.,
 Ill., Ia., Mo., Colo., Utah.

1603. *Acutalis inornata* Ball

- Ball, Proc. Biol. Soc. Wash., xviii, p. 119, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Locality: Fla.

Genus *Micrutalis* Fowl.Logotype *binaria* (Fairm.)

- Fowler, Biol. Centr. Am., Homop., ii, p. 116, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 52, 1908. (Key.)

1604. *Micrutalis dorsalis* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Tragopa*.
 Walker, List Homop., iv, p. 1147, 1852, *Tragopa*.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 390, 1856, *Acutalis*.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Acutalis*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876, *Acutalis*.
 Saunders, Ins. Inj. to Fruits, p. 289, 1883, *Acutalis*.
 Van Duzee, Psyche, v, p. 391, 1890, *Acutalis*.
 Goding, Insect Life, v, p. 92, 1892, *Acutalis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894, *Acutalis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.
 Localities: Quebec, Ont., N. Y., N. C., Mich., Texas.

1605. *Micrutalis calva* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376,
 Walker, List Homop., iv, p. 1141, 1852, *Ceresa*. [Membracis.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856, *Acutalis*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876, *Acutalis*.
 Van Duzee, Psyche, v, p. 389, 1890, *Acutalis*.
 Goding, Insect Life, v, p. 92, 1892, *Acutalis*.
 Wirtner, Ann. Carn. Mus., iii, p. 211, 1904, *Acutalis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 51, 1907, *Acutalis*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Acutalis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908; ix, p. 206, 1909.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 167, 1910.
 Matusch, Psyche, xix, p. 66, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
flavipennis Germar, Silb. Rev. Ent., iii, p. 240, 1835, *Smilia*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 497, 1846, *Acutalis*.

a. var. **illinoiensis** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 430, 1894, *Acutalis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

Localities: N. H., Mass., N. Y., Pa., Md., D. C., Va., N. C., Ga.,
Fla., Ala., Miss., Ohio, Mich., Ill., Mo., Kans., Ia., Ark., Texas,
Colo. (West Indies.)1606. **Micrutalis occidentalis** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 429, 1894, *Acutalis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

a. var. **binotata** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 430, 1894, *Acutalis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 54, 1908.

Localities: Utah, Calif.

1607. **Micrutalis parva** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 429, 1894, *Acutalis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 54, 1908.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

Localities: Ariz., Calif.

Genus **Parantonaë** Fowl.Haplotype *dipteroides* Fowl.

Fowler, Biol. Centr. Am., Homop., ii, p. 101, 1895.

1608. **Parantonaë hispida** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.

Locality: Calif.

TRIBE **TELAMONINI** Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 54, 1908. (Key.)

Genus **Carynota** FitchLogotype *mera* (Say)

Fitch, Homop. N. Y. St. Cab., p. 48, 1851.

Van Duzee, Psyche, v, p. 391, 1890.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Van Duzee, Bul. Soc. Nat. Sci., ix, p. 55, 1908. (Key.)

§*Caranota* Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867 (as synon. of *Ophi-*

Walker, List Homop., iv, p. 1144, 1852. [derma).

Optilete Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867 (orthotype *porphyrea*).1609. **Carynota mera** (Say)Say, Jl. Acad. Nat. Sci. Phila., vi, p. 301, 1831; Compl. Writ., ii, p. 379, *Mem-*
Fitch, Homop. N. Y. St. Cab., p. 48, 1851. [bracis.

Walker, List Homop., iv, p. 1144, 1852.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 465, 1856, *Ophiderma*.Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Ophiderma*.

Provancher, Pet. Faune Ent. Can., iii, p. 246, 1889.

- Van Duzee, *Psyche*, v, p. 389, 1890.
 Packard, 5th Rept. U. S. Ent. Comm., p. 342, 1890, *Ophiderma*.
 Goding, *Insect Life*, v, p. 93, 1892.
 Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, v, p. 188, 1894.
 Wirtner, *Ann. Carn. Mus.*, iii, p. 212, 1904.
 Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, ix, p. 56, 1908.
 Matusch, *Jl. N. Y. Ent. Soc.*, xviii, p. 167, 1910.
 Smith, *Cat. Ins. N. J.*, edn. 3, p. 91, 1910.
 Matansch, *Bul. Am. Mus. Nat. Hist.*, xxxi, p. 332, 1912.
 Van Duzee, *Can. Ent.*, xlv, p. 326, 1912.
 Metcalfe, *Jl. Elisha Mitchell Sci. Soc.*, xxxi, p. 7, 1915.
majus Emmons, *Nat. Hist. N. Y., Ins.*, p. 156, pl. 13, fig. 6, 1854, *Gargara*.
strombergi Goding, *Bul. Ill. St. Lab. Nat. Hist.*, iii, p. 443, 1894.
 Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ohio, Ill., Ia., Mo., Texas.

1610. *Carynota maculata* Funkh.

- Funkhauser, *Ent. News*, xxvi, p. 98, 1915.
 Locality: Fla.

1611. *Carynota stupida* (Walk.)

- Walker, *List Homop.*, ii, p. 577, 1851, *Darnis*.
 Butler, *Cist. Ent.*, ii, p. 343, 1878, *Hypheus*.
 Goding, *Bul. Ill. St. Lab. Nat. Hist.*, iii, p. 450, 1894, *Hypheus*.
 Van Duzee, *Can. Ent.*, xlv, p. 326, 1912.
‡marmorata Van Duzee, *Can. Ent.*, xxi, p. 6, 1889.
 Provancher, *Pet. Faune Ent. Can.*, iii, p. 247, 1889, *Ophiderma*.
 Harrington, *Ottawa Nat.*, vi, p. 30, 1892.
muskokensis Goding, *Bul. Ill. St. Lab. Nat. Hist.*, iii, p. 444, 1894.
 Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, ix, p. 56, 1908.
albopicta Buckton, *Monog. Membr.*, p. 135, pl. 29, fig. 1, 1902, *Hypheus*.
 Localities: Nov. Scot., Quebec, Ont., Me., Mass.

1612. *Carynota vera* Godg.

- Goding, *Can. Ent.*, xxvii, p. 276, 1895 (probably = preceding).
 Locality: Me.

1613. *Carynota marmorata* (Say)

- Say, *Jl. Acad. Nat. Sci. Phila.*, vi, p. 301, 1831; *Compl. Writ.*, ii, p. 379, *Mem-Fitch*, *Homop. N. Y. St. Cab.*, p. 49, 1851, *Cyrtosia*. [bracis.
 Walker, *List. Homop.*, ii, p. 555, 1851, *Thelia*; iv, p. 1146, 1852, *Cyrtosia*.
 Van Duzee, *Can. Ent.*, xxi, p. 6, 1889.
 Van Duzee, *Psyche*, v, p. 389, 1890.
 Goding, *Insect Life*, v, p. 93, 1892.
 Goding, *Bul. Ill. St. Lab. Nat. Hist.*, iii, pp. 445, 481, 1894.
 Slosson, *Ent. News*, vii, p. 265, 1896.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, ix, p. 56, 1908.
 Smith, *Cat. Ins. N. J.*, edn. 3, p. 91, 1910.
 Metcalfe, *Jl. Elisha Mitchell Sci. Soc.*, xxxi, p. 7, 1915.
tripartita Walker, *List Homop.*, ii, p. 576, 1851, *Darnis*.
 Butler, *Cist. Ent.*, ii, p. 343, 1878, *Hypacus*.
 Goding, *Bul. Ill. St. Lab. Nat. Hist.*, iii, p. 449, 1894, *Hypheus*.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., N. C., Ill.

1614. *Carynota porphyrea* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 306, 1846, *Thelia*

Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867, *Optilete*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 57, 1908.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

picta Provancher, Pet. Faune Ent. Can., iii, p. 246, 1889.

Localities: Quebec, N. Y., N. C.

Genus *Thelia* Am. & Serv.Haplotype *bimaculata* (Fabr.)

Amyot and Serville, Hémip., p. 540, 1843.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 305, 1846.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 334, 1856.

Stål, Of. Vet. Akad. Forh., xxiv, p. 555, 1867.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 136, 1896 (notice).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 57, 1908.

1615. *Thelia bimaculata* (Fabr.)

Fabricius, Ent. Syst., iv, p. 10, 1794, *Membracis*.

Coquebert, Illus. Icon. Ins., i, p. 31, pl. 8, fig. 1, 1799, *Membracis*.

Fabricius, Syst. Rhynch., p. 14, 1803, *Membracis*.

Harris, Rept. Ins. Mass., p. 179, 1841, *Hemiptycha*.

Amyot and Serville, Hémip., p. 541, 1843.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 312, 1846.

Fitch, Homop. N. Y. St. Cab., p. 52, 1851.

Walker, List Homop., ii, p. 566, 1851; iv, p. 1142, 1852.

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 3, fig. 15, 1854.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 221, 1862, *Hemiptycha*.

Stål, Hemip. Fabr., ii, p. 115, 1869.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.

Provancher, Pet. Faune Ent. Can., iii, p. 242, pl. 5, fig. 9, 1889.

Van Duzee, Psyche, v, p. 391, 1890.

Goding, Insect Life, v, p. 93, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 57, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 168, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 333, 1912.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Funkhauser, Ann. Ent. Soc. Am., viii, p. 140, 1915 (life history).

†acuminata Harris, Rept. Ins. Mass., p. 179, 1841, *Hemiptycha* (female).

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Ohio, Ill.

1616. *Thelia uhleri* Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 248, 1869.

Van Duzee, Psyche, v, p. 291, 1890.

Goding, Insect Life, v, p. 93, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 58, 1908.

Localities: Ont., N. Y., Pa., Mich., Ill., Wis., Kans.

Genus **Glossonotus** Butl.
 Logotype *acuminatus* (Fabr.)

Butler, Cist. Ent., ii, p. 222, 1877.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 58, 1908. (Key.)

1617. **Glossonotus acuminatus** (Fabr.)

Fabricius, Syst. Ent., p. 675, 1775, *Membracis*.

Goeze, Ent. Beytr., ii, p. 147, 1778, *Cicada*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, 2094, 1788, *Cicada*.

Fabricius, Ent. Syst., iv, p. 11, 1794, *Membracis*.

Fabricius, Syst. Rhyng., p. 18, 1803, *Centrotus*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, pl. 5, fig. 15, 1846, *Thelia*.

Walker, List Homop., ii, p. 564, 1851, *Thelia*.

Stål, Hemip. Fabr., ii, p. 115, 1869, *Telamona*.

Butler, Cist. Ent., ii, p. 222, 1877.

Van Duzee, Psyche, v, p. 391, 1890, *Thelia*.

Goding, Insect Life, v, p. 93, 1892, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.

Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, pl. 16, fig. 17, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

Localities: Ont., Mass., N. Y., N. J., Pa., Mich., Ia., Kans., Ark.

1618. **Glossonotus turriculatus** (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 1, 1854, *Telamona*.

Van Duzee, Psyche, v, p. 391, 1890, *Thelia*.

Goding, Can. Ent., xxv, p. 196, 1893, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

[*robinae* Fitch MS], Goding, Can. Ent., xxv, p. 196, 1893, *Thelia* (as synonym.).

Localities: Mass., N. Y., N. J., Ohio, Ill.

1619. **Glossonotus univittatus** (Harr.)

Harris, Rept. Ins. Mass., p. 180, 1841, *Membracis*.

Walker, List Homop., ii, p. 494, 1851, *Enchenopa*.

Fitch, Trans. N. Y. St. Agr., Soc., xvi, p. 390, 1856, *Thelia*.

Harris, Treat Ins. Inj. Veg., edn. 3, p. 223, 1862, *Membracis*.

Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia*.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878, *Thelia*.

Van Duzee, Psyche, v, p. 391, 1890, *Thelia*.

Packard, 5th Rept. U. S. Ent. Comm., p. 98, 1890, *Thelia*.

Goding, Insect Life, v, p. 93, 1892, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia*.

Van Duzee, Ent. News, vi, p. 203, 1895, *Thelia*.

Gillette and Baker, Hemip. Colo., p. 67, 1895, *Thelia*.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.

Van Duzee, Can. Ent., xli, p. 382, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.

Localities: Ont., Mass., N. Y., N. J., Pa., Ill., Dak., Mont., Colo., N. Mex.

1620. *Glossonotus godingi* (Van D.)

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia* (nomen nudum).
 Van Duzee, Ent. News, vi, p. 203, 1895, *Thelia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
 Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, 1908, *Telamona*.
 Van Duzee, Can. Ent., xli, p. 382, 1909, *Thelia*.
 Van Duzee, Can. Ent., xliv, p. 326, 1912.
 †*univittata* Fitch, Homop., N. Y. St. Cab., p. 52, 1851, *Thelia*.
 Provancher, Pet. Faune Ent. Can., iii, p. 241, 1889, *Thelia*.
dorsalis Buckton, Monog. Membr., p. 197, pl. 43, fig. 3, 1903, *Telamona*.
 Localities: Quebec, Ont., Mass., N. Y., Colo.

1621. *Glossonotus crataegi* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Thelia*.
 Walker, List Homop., iv, p. 1144, 1852, *Thelia*?
 Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 2, 1854, *Thelia*.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 334, 1856, *Thelia*.
 Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia*.
 Saunders, Ins. Inj. to Fruits, p. 46, fig. 37, 1883, *Thelia*.
 Van Duzee, Psyche, v, p. 391, 1890, *Thelia*.
 Goding, Insect Life, v, p. 93, 1892, *Thelia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia*.
 Wirtner, Ann. Carn. Mus., iii, p. 211, 1904, *Thelia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 †*pyramidoides* Smith, Cat. Ins. N. J., edn. 2, p. 85, 1900, *Thelia*.
 Localities: Ont., N. Y., N. J., Pa., Ill., Mo.

Genus *Heliria* StålLogotype *cristata* (Fairm.)

- Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867.
 Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 60, 1908.

1622. *Heliria cristata* (Fairm.)

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 311, pl. 5, fig. 14, 1846, *Thelia*.
 Walker, List Homop., ii, p. 565, 1851, *Thelia*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867; xxvi, p. 249, 1869.
 Goding, Can. Ent., xxv, p. 171, 1893.
 Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 6, 1896, *Telamona*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 60, 1908.
 Van Duzee, Can. Ent., xli, p. 382, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
fagi Fitch, Homop., N. Y. St. Cab., p. 51, 1851, *Telamona*.
acclivata Emmons, Nat. Hist. N. Y. Ins., p. 155, pl. 3, fig. 5, 1854, *Telamona*.
 Localities: N. Y., N. J., N. C., Ill.

1623. *Heliria scalaris* (Fairm.)

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 311, 1846, *Thelia*.
 Walker, List Homop., ii, p. 565, 1851, *Thelia*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867; xxvi, p. 249, 1869.
 Provancher, Pet. Faune Ent. Can., iii, p. 243, 1889, *Telamona*.

- Van Duzee, Psyche, v, p. 390, 1890.
 Goding, Ent. News, iii, p. 200, 1892 (male).
 Goding, Insect Life, v, p. 93, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
 Gillette and Baker, Hemip. Colo., p. 67, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 61, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 †*fagi* Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 10, 1854, *Telamona*.
 Localities: Quebec, Ont., N. Y., N. J., Pa., Ill., Colo.

1624. ***Heliria projecta*** (Butl.)

- Butler, Cist. Ent., ii, p. 221, 1877, *Telamona*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 120, 1908, *Telamona*.
cucullata Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 70, 1908, *Telamona*.
 Locality: N. Y.

1625. ? ***Heliria strombergi*** Godg.

- Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 423, 1894.
 Goding, Insect Life, v, p. 93, 1892.
 Locality: Ill.

1626. ? ***Heliria anoflava*** Buckt.

- Buckton, Monog. Membr., p. 198, pl. 43, fig. 4, 1903.
 Locality: "N. Am."

Genus ***Telamona*** Fitch

Logotype *ampelopsidis* Harr.

- Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 555, 1867.
 Butler, Cist. Ent., ii, p. 220, 1877.
 Van Duzee, Psyche, v, p. 391, 1890.
 Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 143, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 61, 1908. (Key.)

1627. ***Telamona alta*** Funkh.

- Funkhauser, Ent. News, xxvi, p. 97, 1915.
 Locality: Ga.

1628. ***Telamona declivata*** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 64, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
 Localities: Me., N. Y., N. J., Ohio, Calif.

1629. ***Telamona pyramidata*** Uhl.

- Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333.
 Van Duzee, Psyche, v, p. 391, 1890.
 Gillette and Baker, Hemip. Colo., p. 67, 1895.
 Tucker, Univ. Kaus. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 64, 1908.
 Locality: Colo.
 [Goding's other localities probably refer to preceding species.]

1630. *Telamona barbata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 65, 1908.

Matansch, Bul. Am. Mus., Nat. Hist., xxxi, p. 332, 1912.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

Localities: N. Y., Ind., N. Mex., Calif.

1631. *Telamona viridia* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 178, pl. 1, fig. 3, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.

Localities: Ia., Colo.

1632. *Telamona obsoleta* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 178, pl. 1, fig. 2, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

Localities: N. Y., Ill., Ia., Kans.

1633. *Telamona westcotti* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 415, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.

Localities: N. Y., N. C., Ill.

1634. *Telamona dubiosa* Van D.

Van Duzee, Check List Hemip., p. 59, 1916 (n.n. for *irrorata* Godg.).

||*irrorata* Goding, Insect Life, v, p. 93, 1892 (nomen nudum).

Goding, Can. Ent., xxv, p. 172, 1893 (nomen nudum).

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 418, 1894.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: N. Y., N. J., Ill.

1635. *Telamona reclinata* Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 7, 1854.

Van Duzee, Can. Ent., xxi, p. 6, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 244, 1889.

Van Duzee, Psyche, v, p. 391, 1890.

Goding, Insect Life, v, p. 93, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.

Gillette and Baker, Hemip. Colo., p. 67, 1895.

Slosson, Ent. News, vii, p. 265, 1896.

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

†*teyrtops* Butler, Cist., Ent., ii, p. 222, 1877.

Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Ill., Colo., Calif.

1636. *Telamona lugubris* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, 1903.

Localities: Ia., Kans.

1637. *Telamona decorata* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, pl. 1, fig. 6, 1903.

Localities: N. Y., Ia., Kans., Ark.

1638. *Telamona compacta* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 180, pl. 1, fig. 5, 1903.

Localities: Ia., Ark., Colo.

1639. *Telamona ehrhorni* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 180, pl. 1, fig. 4, 1903.

Locality: Ariz.

1640. *Telamona molaris* Butl.

Butler, Cist. Ent., ii, p. 222, 1877.

Locality: Sask.

1641. *Telamona magniloba* Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 422, 1894 (described).

Locality: Ill.

1642. *Telamona pruinosa* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 177, pl. 1, fig. 7, 1903.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

Localities: Ia., Ill., Calif.

1643. *Telamona subfalcata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Localities: Ga., Fla.

1644. *Telamona querci* Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 4, 1854.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.

Goding, Can. Ent., xxv, p. 171, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908.

§*quercus* Walker, List Homop., iv, p. 1145, 1852.

Butler, Cist. Ent., ii, p. 222, 1877.

Smith, Cat. Ins. N. J., edn. 1, p. 441, 1891, *Thelia*.

brunneipennis Buckton, Monog. Membr., p. 197, pl. 43, fig. 1, 1903.

Localities: Ont., N. Y., D. C., Ohio, Colo., N. Mex., Nev.

1645. *Telamona monticola* (Fabr.)

Fabricius, Syst. Rhyng., p. 7, 1803, *Membracis*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, pl. 5, fig. 16, 1846, *Thelia*.

Stål, Hemip. Fabr., ii, p. 115, 1869.

Butler, Cist. Ent., ii, p. 221, 1877.

Van Duzee, Psyche, v, p. 391, 1890.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 128, 1892.

Goding, Insect Life, v, p. 93, 1892.

Goding, Can. Ent., xxv, p. 171, 1893.

Van Duzee, Bul. Buf. Soc., Nat. Sci., v, p. 188, 1894.

Gillette and Baker, Hemip. Colo., p. 67, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Slosson, Ent. News, xvii, p. 326, 1906.

Felt, 7th Rept. N. Y. Forest, Fish, Game. Comm., p. 529, 1908, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908; ix, p. 206, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

Localities: N. H., N. J., Pa., N. C., Fla., Colo.

1646. *Telamona ampelopsidis* (Harr.)

Harris, Rept. Ins. Mass., p. 181, 1841, *Membracis*.

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.

Walker, List Homop., iv, p. 1145, 1852.

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 9, 1854.

Harris, Treat. Ins. Inj. Veg., edn. 3, p. 223, 1862, *Membracis*.

Butler, Cist. Ent., ii, p. 221, 1877.

Van Duzee, Psyche, v, p. 391, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

[*Membracis*.

[*cissi* Harris MS] List Ins. Mass. in Hitchcock, Geol. Mass., p. 584, 1833,

cyrtops Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, 1846, *Thelia*.

†*monticola* Uhler, Stand. Nat. Hist., ii, p. 225, fig. 302, 1884.

Localities: Mass., N. Y., N. J., Md., N. C., Ill., Kans., Colo.

1647. *Telamona tristis* Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 473, 1856.

Rathvon in Mombert, Hist. Lanc. Co., Pa., p. 551, 1869.

Butler, Cist. Ent., ii, p. 221, 1877.

Van Duzee, Can. Ent., xxi, p. 6, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 243, 1889.

Van Duzee, Psyche, v, p. 391, 1890 (as synonym of *coryli*).

Goding, Insect Life, v, p. 93, 1892.

Goding, Can. Ent., xxv, p. 172, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.

Van Duzee, Can. Ent., xli, p. 382, 1909.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Localities: Quebec, Ont., N. Y., Ill., Mich.

a. var. *coryli* Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 6, 1854.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 473, 1856.

Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.

Butler, Cist. Ent., ii, p. 221, 1877.

Van Duzee, Can. Ent., xxi, p. 6, 1889.

Van Duzee, Psyche, v, p. 391, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.

Van Duzee, Can. Ent., xl, p. 115, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

♂*specta* Goding, Bul. Ill. St. Lab. Hist., iii, p. 417, 1894.

Localities: Quebec, Ont., N. Y., N. J., Pa., Ill.

1648. *Telamona concava* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
 Butler, Cist. Ent., ii, p. 221, 1877.
 Van Duzee, Psyche, v, p. 391, 1890.
 Goding, Can. Ent., xxv, p. 172, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 69, 1908.
 Van Duzee, Can. Ent., xli, p. 382, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
ornata Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 8, 1854.
 Localities: N. H., N. Y., N. J., Pa., Mich.

1649. *Telamona sinuata* Fowl.

- Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 7, 1896.
 Buckton, Monog. Membr., p. 198, pl. 43, fig. 5, 1903.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 69, 1908.
 Localities: Ariz.(?). (Mexico.)

1650. *Telamona praealta* Fowl.

- Fowler, Trans. Ent. Soc. Lond. for 1894, p. 420.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Localities: "Saguenay," Quebec (not Brazil), Pa., Fla.

1651. *Telamona unicolor* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
 ?Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 3, 1854.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.
 Butler, Cist. Ent., ii, p. 220, 1877.
 Provancher, Pet. Faune Ent. Can., iii, p. 244, 1889.
 Van Duzee, Psyche, v, p. 391, 1890 (as synon. of *fasciata*).
 Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
 Harrington, Ottawa Nat., vi, p. 30, 1892.
 Goding, Insect Life, v, p. 93, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Matusch, Bul. Am. Mus. Nat. Hist., xxxi, p. 333, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
fasciata Fitch, Homop., N. Y. St. Cab., p. 50, 1851.
 Walker, List Homop., iv, p. 1146, 1852.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856.
 Butler, Cist. Ent., ii, p. 220, 1877.
 Provancher, Pet. Faune Ent. Can., iii, p. 244, 1889.
 Van Duzee, Psyche, v, p. 391, 1890.
 Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
 Van Duzee, Can. Ent., xli, p. 382, 1909.
diffusa Walker, List Homop., Suppl., p. 143, 1858, *Hemiptycha*.

a. var. irrorata Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856.

Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Mich., Ill., Ia.,
Kans., Mo., Texas.

1652. *Telamona extrema* Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, pl. 1, fig. 1, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: Mass., R. I., N. J., Ia., Kans.

1653. *Telamona collina* (Walk.)

Walker, List Homop., ii, p. 565, 1851, *Thelia*.

Butler, Cist., Ent., ii, p. 220, 1877.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908 (noticed).

Slosson, Ent. News, xxiii, p. 173, 1912 (note without name).

turritella Buckton, Monog. Membr., p. 198, pl. 44, fig. 6, 1903.

Localities: N. Y., Pa., Fla.

1654. *Telamona maculata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 72, 1908.

Localities: N. Y., Ill.

1655. *Telamona excelsa* (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, 1846, *Thelia*.

Walker, List Homop., ii, p. 564, 1851, *Thelia*.

Stål, Stet. Ent. Zeit., xxiv, p. 71, 1864.

Van Duzee, Psyche, v, p. 391, 1890.

Goding, Insect Life, v, p. 93, 1892.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 422, 1894.

Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 4, 1896.

Localities: Ill.(?), Mo.(?). (Mexico.)

[Goding's localities probably refer to *extrema*.]

1656. *Telamona mexicana* Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 249, 1869.

Butler, Cist. Ent., ii, p. 222, 1877.

Van Duzee, Psyche, v, p. 391, 1890.

Goding, Ent. News, iii, p. 109, 1892 (or *pulchra* if n. sp.).

Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 5, 1896.

Localities: Calif.(?). (Mexico.)

1657. *Telamona conica* (Walk.)

Walker, List Homop., ii, p. 557, 1851, *Thelia*.

Locality: Fla.

[*Telamona jugata* Uhl. MS.]

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 128, 1892.

Locality: Ia.

[*Telamona ellae* Godg. MS.]

Goding, Insect Life, v, p. 93, 1892.

Genus **Telamonanthe** Bak.Orthotype *rileyi* Godg.

Baker, Can. Ent., xxxix, p. 115, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 72, 1908.

1658. **Telamonanthe rileyi** (Godg.)Goding, Ent. News, iii, p. 108, 1892, *Telamona*.

Baker, Can. Ent., xxxix, p. 115, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

♀ *coquilletti* Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 420, 1894, *Telamona*.

Locality: Calif.

1659. **Telamonanthe pulchella** (Ball)Ball, Proc. Biol. Soc. Wash., xvi, p. 181, pl. 1, fig. 9, 1903, *Telamona*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 72, 1908.

♂ *brevis* Ball, Proc. Biol. Soc. Wash., xvi, p. 181, 1903, *Telamona*.

Locality: Colo.

1660. **Telamonanthe modesta** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 420, 1894, *Telamona*.

Locality: Ill.

Genus **Archasia** StålLogotype *galeata* (Fabr.)

Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 73, 1908.

1661. **Archasia galeata** (Fabr.)Fabricius, Syst. Rhyng., p. 9, 1803, *Membracis*.Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, 1846, *Thelia*.Walker, List Homop., ii, p. 563, 1851, *Thelia*.

Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.

Uhler, Stand. Nat. Hist., ii, p. 225, 1884.

Van Duzee, Psyche, v, p. 390, 1890.

Goding, Insect Life, v, p. 93, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, pl. 16, fig. 16, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 73, 1908; ix, p. 207, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

auriculata Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia*.Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 3, fig. 12, 1854, *Smilia*.

Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ga., Fla., Ill., Ia., Colo., Utah, Texas.

1662. **Archasia belfragei** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v p. 189, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 73, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

canadensis Provancher, Pet. Faune Ent. Can., iii, p. 230, 1889.

Localities: Quebec, Ont., Mass., N. Y., N. J., N. C., Ill., Mich.

1663. *Archasia pallida* (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846, *Thelia*.

Walker, List Homop., ii, p. 562, 1851, *Thelia*.

Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.

Locality: "N. Am."

TRIBE SMILIINI Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 74, 1908. (Key.)

Genus *Smilia* Germ.

Logotype *centralis* Germ.

Germar, Silb. Rev. Ent., i, p. 177, 1833; iii, p. 233, 1835.

Burmeister, Handb. d. Ent., ii, p. 137, 1835.

Amyot and Serville, Hémip., p. 538, 1843.

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 74, 1908.

1664. *Smilia camelus* (Fabr.)

Fabricius, Syst. Rhynch., p. 10, 1803, *Membracis*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846, *Thelia*.

Walker, List Homop., ii, p. 562, 1851, *Thelia*.

Stål, Hémip. Fabr., ii, p. 115, 1869.

Uhler, Stand. Nat. Hist., ii, p. 225, 1884.

Van Duzee, Can. Ent., xxi, p. 7, 1889.

Goding, Insect Life, v, p. 92, 1892.

Slosson, Ent. News, vi, p. 321, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 74, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 171, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

vittata Amyot and Serville, Hémip., p. 539, 1843.

Fitch, Homop. N. Y. St. Cab., p. 49, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 14, 1854.

compressa Buckton, Monog. Membr., p. 191, pl. 41, fig. 6, 1903, *Antianthe*.

a. var. guttata Fitch

Fitch, Homop. N. Y. St. Cab., p. 49, 1851.

Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 3, fig. 11, 1854.

b. var. zimmermanni Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846.

c. var. viridis Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 426, 1894.

d. var. silvestri Mch.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 172, 1910.

Localities: Ont., N. H., Mass., N. Y., N. J., Pa., N. C., Ga., Fla.,
Ill., Mich., Ia., Mo., Texas.

1665. *Smilia fasciata* Am. & Serv.

Amyot and Serville, Hémip., p. 539, 1843.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 75, 1908.

Localities: Ga., Fla.

Genus *Antianthe* Fowl.Logotype *expansa* (Germ.)

Fowler, Biol. Centr. Am., Homop., ii, pp. 89, 137, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 75, 1908.

||*Janthe* Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Agondas Kirkaldy, Entomol., xxxv, p. 316, 1902.

1666. *Antianthe expansa* (Germ.)

Germar, Silb. Rev. Ent., iii, p. 245, 1835, *Hemiptycha*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, pl. 5, figs. 6, 7, 1846, *Thelia*.

Walker, List Homop., ii, p. 563, 1851, *Thelia*.

Stål, Stet. Ent. Zeit., xxv, p. 71, 1864, *Smilia*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867, *Janthe*.

Provancher, Pet. Faune Ent. Can., iii, p. 231, 1889, *Janthe*.

Fowler, Biol. Centr. Am., Homop., ii, p. 137, pl. 8, fig. 21, 1896.

Buckton, Monog. Membr., p. 190, pl. 41, fig. 3, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 76, 1908.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

cucullata Burmeister, Handb. d. Ent., ii, p. 140, 1835, *Hemiptycha*.

Localities: Fla., Ariz., Calif. (Mexico.)

Genus *Cyrtolobus* Godg.Logotype *fenestratus* (Fitch)

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892 (n.n. for *Cyrtosia* Fitch).

Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 74, 76, 1908. (Key.)

||*Cyrtosia* Fitch, Homop., N. Y. St. Cab., p. 49, 1851.

Cyrtoisa Kirkaldy, Entomol., xxxvi, p. 179, 1903.

Subgenus *Cyrtolobus* Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 78, 1908. (Key.)

1667. *Cyrtolobus celsus* Van D.

Van Duzee, Check List Hemip., p. 60, 1916 (n.n. for †*fenestratus* Van D.).

†*fenestratus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 81, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: Mass., N. Y., N. J., Ga.

1668. *Cyrtolobus ovatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 82, 1908; ix, p. 207, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Localities: N. Y., N. J., N. C., Ga., Fla.

1669. *Cyrtolobus fuliginosus* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 13, fig. 15, 1854, *Cyrtosia*.

Goding, Can. Ent., xxv, p. 172, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 82, 1908.

Locality: N. Y.

1670. *Cyrtolobus viridis* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 13, 1854, *Smilia*.

Goding, Insect Life, v, p. 92, 1892, *Atymna*.

Localities: N. Y., Pa., Ill.

1671. *Cyrtolobus arcuatus* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 13, fig. 14, 1854, *Cyrtosia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

†*muticus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 83, 1908 (part).

Localities: Mass., R. I., N. Y., Pa., N. C., Ga., Fla., Ohio.

1672. *Cyrtolobus fenestratus* (Fitch)

Fitch, Momop. N. Y. St. Cab., p. 49, 1851, *Cyrtosia*.

Walker, List Homop., iv, p. 1147, 1852, *Cyrtosia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876; iii, p. 457, 1877, *Cyrtosia*.

Van Duzee, Psyche, v, p. 388, 1890, *Cyrtosia*.

Goding, Insect Life, v, p. 92, 1892, *Cyrtosia*.

Goding, Can. Ent., xxv, p. 172, 1893.

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Van Duzee, Can. Ent., xli, p. 383, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

muticus Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 83, 1908 (part).

Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: Mass., N. Y., N. J., Pa., N. C., Ga., Fla., Miss., Ohio,
Ill., Colo., Dak.

1673. *Cyrtolobus tuberosus* (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 307, 1846, *Thelia*.

Walker, List Homop., ii, p. 562, 1851, *Thelia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 84, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

semifascia Walker, List Homop., ii, p. 561, 1851, *Thelia*. [1903, *Argante*.

‡*semifasciata* Buckton, Monog. Membr., p. 190, pl. 40, fig. 9, pl. 41, fig. 1,

Localities: Mass., N. Y., N. C., Ga., Fla., Miss., Ill.

1674. *Cyrtolobus vanduzii* (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 426, 1894, *Smilia*.

grandis, Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 84, 1908.

Localities: Ariz., Calif.

1675. *Cyrtolobus sculptus* (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 307, 1846, *Thelia*.

Walker, List Homop., ii, p. 562, 1851, *Thelia*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867, *Cyrtosia*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 432, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 85, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Localities: N. J., Pa., N. C., Fla., Ohio, Ill., Mich.

1676. *Cyrtolobus discoidalis* (Emms.)

Emmons, Nat. Hist. N. Y.; Ins., p. 157, pl. 13, fig. 4, 1854, *Gargara*.

Goding, Can. Ent., xxv, p. 172, 1893, *Cyrtosia*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Azymna*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 86, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: N. Y., N. J., N. C., Ga.

[*Cyrtolobus discoidalis* of Fowler (Biol. Centr. Am., Homop., ii, p. 141, 1896) and Buckton (Monog. Membr., p. 192, pl. 41, fig. 8, 1903) is quite distinct from this and may be *Evashmecadia carinata* Stål]

1677. *Cyrtolobus cinctus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 86, 1908.

Locality: N. Y.

1678. *Cyrtolobus vau* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 299, 1831; Compl. Writ., ii, p. 378,

Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia*.

[*Membracis*.

Walker, List Homop., iv, p. 1142, 1852, *Thelia*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856, *Smilia*.

Uhler in Harris, Treat. Ins. Inj. Veg., edn. 3, p. 220, 1862, *Smilia*.

Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1333, *Smilia*.

Van Duzee, Can. Ent., xxi, p. 7, 1889, *Cyrtosia*.

Provancher, Pet. Faune Ent. Can., iii, p. 238, 1889, *Cyrtosia*.

Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia*.

Goding, Insect Life, v, p. 92, 1892, *Cyrtosia*.

Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.

Gillette and Baker, Hemip. Colo., p. 67, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Slosson, Ent. News, xvii, p. 326, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 87, 1908.

Van Duzee, Can. Ent., xli, p. 383, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

†*feneestrata* Provancher, Pet. Faune Ent. Can., iii, p. 239, 1889, *Cyrtosia*.

[*varius* Goding MS] Moore, Can. Ent., xxxix, p. 189, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ill., Kans., Mo., Ark., Texas, N. Mex., Colo.

1679. *Cyrtolobus limus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 87, 1908.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

Localities: Colo., Calif.

1680. *Cyrtolobus acutus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 88, 1908.

Localities: Colo., Utah, N. Mex., Ariz.

1681. *Cyrtolobus maculifrontis* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 1, 1854, *Gargara*.

Goding, Can. Ent., xxv, p. 172, 1893, *Cyrtosia*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 89, 1908.

Localities: N. Y., Ga., Ill., Mich., Colo.

1682. *Cyrtolobus pallidifrontis* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., pl. 13, fig. 7, 1854, *Gargara*.

Goding, Insect Life, v, p. 92, 1892, *Cyrtosia*.

Goding, Can. Ent., xxv, p. 172, 1893.

Localities: N. Y., Ga., Ill.

1683. *Cyrtolobus intermedius* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., pl. 13, fig. 16, 1854, *Cyrtosia*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 433, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.

Locality: N. Y.

1684. *Cyrtolobus inermis* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 9, 1854, *Gargara*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894, *Atymna*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914, *Atymna*.

Localities: N. J., Utah.

1685. *Cyrtolobus griseus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.

Locality: Kans.

1686. *Cyrtolobus cinereus* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 3, 1854, *Gargara*.

Goding, Can. Ent., xxv, p. 172, 1893.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 91, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

ornata Provancher, Pet. Faune Ent. Can., iii, p. 240, 1889, *Cyrtosia*.

Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia*.

Localities: Quebec, N. Y., N. J.

1687. *Cyrtolobus fuscipennis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 91, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: N. Y., N. J.

1688. ?*Cyrtolobus maculatus* (Buckt.)

Buckton, Monog. Membr., p. 174, pl. 36, fig. 7, 1903, *Centrogonia*.

Locality: N. Y.

[*Cyrtolobus gloveri* Godg. MS.]

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 434, 1894 (nomen nudum).

Glover, MS Notes, Homop., pl. 1, fig. 14 (never published).

Locality: Md.(?).

Subgenus *Atymna* StålHaplotype *castaneae* (Fitch)

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 92, 1908. (Key.)

1689. *Cyrtolobus simplex* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.

Locality: Ariz.

1690. *Cyrtolobus castaneae* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia*.

Walker, List Homop., iv, p. 1143, 1852, *Thelia*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 470, 1856, *Smilia*.

Walker, List Homop., Suppl., p. 133, 1858, *Smilia*.

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Smilia*.

Van Duzee, Psyche, v, p. 390, 1890 (as synonym of *inornata* Say?).

Packard, 5th Rept. U. S. Ent. Comm., p. 350, 1890, *Smilia*.

Harrington, Ottawa Nat., vi, p. 30, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.

Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.

Buckton, Monog. Membr., p. 194, 1903.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Slosson, Ent. News, xvii, p. 326, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

a. var. *lineatus* Buckt.

Buckton, Monog. Membr., p. 195, pl. 42, fig. 6, 1903.

b. var. *nigricephalus* (Emms.)

Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 5, 1854, *Gargara*.

Localities: Ont., N. H., Mass., N. Y., N. J., Pa., N. C., Ga.

1691. *Cyrtolobus helena* Woodr.

Woodruff, Jl. N. Y. Ent. Soc., xxiii, p. 45, 1915.

Locality: N. Y.

1692. *Cyrtolobus querci* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia*.

Walker, List Homop., iv, p. 1143, 1852, *Thelia*.

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 8, 1854, *Gargara*.

Van Duzee, Psyche, v, p. 390, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Slosson, Ent. News, xvii, p. 326, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.

Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 335, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

Localities: Ont., Conn., N. Y., Pa., N. C., Ga., Ill., Mich., Ia., Mo.

1693. *Cyrtolobus inornatus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 299, 1831; Compl. Writ., ii, p. 378,

Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia*.

[*Membracis*.

Walker, List Homop., iv, p. 1142, 1852, *Thelia*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 471, 1856, *Smilia*.

Walker, List Homop., Suppl., p. 134, 1858, *Smilia*.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Smilia*.

Van Duzee, Psyche, v, p. 389, 1890.

Packard, 5th Rept. U. S. Ent. Comm., p. 350, 1890, *Smilia*.

Goding, Insect Life, v, p. 92, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

Localities: N. Y., N. J., Pa., Md., N. C., Ill.

Subgenus *Evashmeadea* Godg.

Logotype *concinus* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 94, 1908.

||*Ashmcadea* Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892 (nomen nudum).

1694. *Cyrtolobus concinns* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 94, 1908.

Locality: Ariz.

Subgenus *Xantholobus* Van D.

Orthotype *inflatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 95, 1908. (Key.)

1695. *Cyrtolobus muticus* (Fabr.)

Fabricius, Genera Ins., p. 297, 1776, *Membracis*.

Fabricius, Species Ins., ii, p. 318, 1781, *Membracis*.

Fabricius, Mant. Ins., ii, p. 265, 1787, *Membracis*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2093, 1788, *Cicada*.

Fabricius, Ent. Syst., iv, p. 15, 1794, *Membracis*.

Fabricius, Syst. Rhyng., p. 21, 1803, *Centrotus*.

Stål, Hemip. Fabr., ii, p. 25, 1869, *Cyrtosia*.

Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia*.

- Van Duzee, Check List Hemip., p. 61, 1916. [Membracis.
trilineatus Say, Long's 2d Exped., p. 300, 1824; Compl. Writ., i, p. 200,
 Provancher, Pet. Faune Ent. Can., iii, p. 239, 1889, *Cyrtosia*.
 Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia*.
 Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia*.
 Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 96, 1908.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Localities: Quebec, R. I., N. Y., Pa., Ill.

1696. *Cyrtolobus lateralis* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 96, 1908.
 Locality: N. Y.

1697. *Cyrtolobus inflatus* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 97, 1908.
 Localities: Colo., Ariz.

1698. *Cyrtolobus nitidus* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 97, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Localities: N. Y., N. J., D. C., Fla.

1699. *Cyrtolobus tumidus* (Walk.)

- Walker, List Homop., ii, p. 560, 1851, *Thelia*.
 Locality: Fla.

Genus *Ophiderma* Fairm.

Haplotype *salamandra* Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 493, 1846.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
 Provancher, Pet. Faune Ent. Can., iii, p. 247, 1889.
 Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 142, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 74, 98, 1908. (Key.)

1700. *Ophiderma salamandra* Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 493, 1846.
 Walker, List Homop., ii, p. 588, 1851.
 Slosson, Ent. News, v, p. 5, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 99, 1908; ix, p. 207, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
 Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., D. C.,
 Va., Ga., Fla., Ill., Mich.

1701. *Ophiderma pubescens* Emms.

- Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 2, 1854, *Gargara*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 99, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.

[*obscura* Van D. MS] Matusch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.

Localities: Mass., N. Y., N. J., Pa., N. C., Ga.

1702. *Ophiderma flaviguttula* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 438, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Slosson, Ent. News, xvii, p. 326, 1906 (*flavoguttata*).

Localities: N. H., Pa., Ill.

1703. *Ophiderma flavicephala* Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 439, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908; ix, p. 207, 1909.

Matusch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

Localities: Mass., N. Y., N. J., Pa., Md., N. C., Fla.

1704. *Ophiderma flava* Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 439, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.

Van Duzee, Can. Ent., xlv, p. 326, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

†*inornata* Provancher, Pct. Faune Ent. Can., iii, p. 248, 1889.

Localities: Quebec, Mass., N. Y., Pa., N. C., Ill., Mich.

1705. *Ophiderma pallida* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908.

Locality: Ariz.

1706. *Ophiderma nigrocineta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 101, 1908.

Locality: Colo.

TRIBE POLYGLYPTINI Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 101, 1908. (Key.)

Genus *Idioderma* Van D.

Orthotype *virescens* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 207, 1909.

1707. *Idioderma virescens* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 208, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.

Locality: Fla.

1708. *Idioderma varia* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 208, 1909.

Locality: Fla.

Genus **Vanduzea** Godg.Orthotype *arcuata* Say

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892 (nomen nudum).

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894 (valid here).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 102, 1908. (Key.)

Hypamastris Fowler, Biol. Centr. Am., Homop., ii, p. 92, 1895.1709. **Vanduzea arcuata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 302, 1831; Compl. Writ., ii, p. 380,

Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Carynota*.[*Membraeis*.Walker, List Homop., iv, p. 1144, 1852, *Carynota*.Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Caranota*.Van Duzee, Psyche, v, p. 389, 1890, *Ophiderma*? (suggests new genus).

Goding, Insect Life, v, p. 93, 1892.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894.

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908.

Van Duzee, Can. Ent., xli, p. 382, 1909, *Carynota*.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.

Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 335, 1912.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.

Funkhauser, Psyche, xxii, p. 183, 1915 (life history).

Localities: Ont., N. Y., N. J., Pa., D. C., N. C., Ga., Ohio, Mich., Colo.

1710. **Vanduzea triguttata** (Burm.)Burmeister, Silb. Rev. Ent., iv, p. 183, 1836, *Entylia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.

vestita Goding, Insect Life, v, 93, 1892 (nomen nudum).Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894 (*described*).

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908; ix, p. 209, 1909.

Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915.

[*annexus* Uhl. MS] Townsend, Can. Ent., xxiv, p. 196, 1892, *Cyrtolobus*.

Localities: D. C., Fla., Colo., N. Mex., Ariz.

1711. ? **Vanduzea apicalis** (Walk.)Walker, List Homop., ii, p. 533, 1851, *Ceresa*.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 441, 1894.

Locality: "N. Am."

1712. **Vanduzea segmentata** (Fowl.)Fowler, Biol. Centr. Am., Homop., ii, p. 93, pl. 6, fig. 23, 1895, *Hypamastris*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908.

Localities: Texas, Ariz. (Mexico.)

1713. **Vanduzea laeta** Godg.Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 441, 1894 (*Amastris* on p. 481).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.

Locality: Ariz.

1714. *Vanduzee* *bajula* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894, *Evashmcadca*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.

arizonensis Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894, *Evash-*

Locality: Ariz. [*mcadca*].

Genus *Polyglypta* Burm.

Haplotype *costata* Burm.

Burmeister, Handb. d. Ent., ii, p. 142, 1835.

Burmeister, Silb. Rev. Ent., iv, p. 176, 1836.

Amyot and Serville, Hémip., p. 541, 1843.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 296, 1846.

Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867; xxvi, p. 240, 1869.

Provancher, Pet. Faune Ent. Can., iii, p. 240, 1889.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 121, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.

1715. *Polyglypta dorsalis* Burm.

Burmeister, Silb. Rev. Ent., iv, p. 178, 1836.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 297, 1846.

Walker, List Homop., ii, p. 543, 1851.

Stål, Stet. Ent. Zeit., xxiv, p. 73, 1864.

Stål, Of. Vet. Akad. Forh., xxvi, p. 240, 1869.

Butler, Cist. Ent., ii, p. 208, 1877.

Provancher, Pet. Faune Ent. Can., iii, p. 241, 1889.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 394, 1894.

Fowler, Biol. Centr. Am., Homop., ii, p. 124, pl. 8, fig. 5, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.

pallipes Burmeister, Silb. Rev. Ent., iv, p. 179, 1836.

sicula Amyot and Serville, Hémip., p. 541, 1843.

nigella Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 298, 1846.

fusca Butler, Cist. Ent., ii, p. 208, pl. 3, fig. 3, 1877.

hordeacea Butler, Cist. Ent., ii, p. 209, pl. 3, fig. 4, 1877.

Localities: Ga.(?), Texas. (Mexico.)

Genus *Entylia* Germ.

Logotype *sinuata* (Fabr.)

Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 247, 1835.

Burmeister, Handb. d. Ent., ii, p. 143, 1835.

Burmeister, Silb. Rev. Ent., iv, p. 181, 1836.

Blanchard, Hist. des Ins., Hémip., p. 186, 1840.

Amyot and Serville, Hémip., p. 538, 1843 (*Entilia*).

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 299, 1846.

Walker, List Homop., ii, p. 546, 1851.

Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867; xxvi, p. 241, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 129, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908.

1716. *Entylia carinata* (Forst.)

Forster, Nova Spec. Ins., Cent., i, p. 67, 1771, *Cicada*.

Goeze, Ent. Beytr., ii, p. 148, 1778, *Cicada*.

- Glover, Rept. U. S. Dept. Agr. for 1876, p. 29, fig. 14.
 Glover, MS Notes, Homop., pl. 1, fig. 26, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 232, 1889.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Van Duzee, Check List Hemip., p. 61, 1916.
 ?[*gibbosa* Retz.] De Geer, Mémoires, iii, p. 211, pl. 32, figs. 20, 21, 1773 (with Retzius, Genera et Spec. Ins., p. 80, 1783, *Cicada*. [out name?]).
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2094, 1788, *Cicada*.
bactriana Germar, Silb. Rev. Ent., iii, p. 248, 1835.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 300, pl. 5, fig. 32, 1846.
 Walker, List Homop., ii, p. 547, 1851.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 241, 1869.
 Butler, Cist. Ent., ii, p. 211, 1877.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 397, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 209, 1904.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 105, 124, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
 †*sinuata* Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Entilia*.
 Emmons, Nat. Hist. N. Y. Ins., p. 153, pl. 13, fig. 11, 1854, *Entilia*.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 229, 1862, *Membracis*.
 Provancher, Pet. Faune Ent. Can., iii, p. 232, 1889.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 261, 1910.
indeisa Walker, List Homop., ii, p. 549, 1851.
 †*emarginata* Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 13, fig. 13, 1854,
impedita Walker, List Homop., Suppl., p. 137, 1858. [*Entilia*.
vittata Buckton, Monog. Membr., p. 184, pl. 39, fig. 6, 1903, *Publilia*.

a. var. **torva** Fitch

- Fitch, Homop. N. Y. St. Cab., p. 47, 1851.
accisa Walker, List Homop., ii, p. 548, 1851.
 Butler, Cist. Ent., ii, p. 211, 1877.
 †*sinuata* Buckton, Monog. Membr., p. 183, pl. 39, fig. 1, 1903.
 †*concisa* Buckton, Monog. Membr., p. 183, pl. 39, fig. 2, 1903.

b. var. **reducta** Walk.

- Walker, List Homop., ii, p. 549, 1851.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., N. C., Mich., Ia.,
 Kans.

1717. **Entylia concisa** Walk.

- Walker, List Homop., ii, p. 547, 1851.
 Butler, Cist. Ent., ii, p. 211, 1877.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908; ix, p. 209, 1909.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
decisa Walker, List Homop., ii, p. 548, 1851.
 †*conceava* Provancher, Pet. Faune Ent. Can., iii, p. 233, 1889.
 Localities: D. C., N. C., Ga., Fla.

1718. *Entylia sinuata* (Fabr.)

- Fabricius, Ent. Syst., Suppl., p. 513, 1798, *Membracis*.
 Fabricius, Syst. Rhyn., p. 7, 1803, *Membracis*.
 Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 248, 1835.
 Burmeister, Handb. d. Ent., ii, p. 140, 1835, *Hemiptycha*.
 Amyot and Serville, Hémip., p. 538, 1843, *Entilia*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 300, pl. 5, fig. 29, 1846.
 Walker, List Homop., ii, p. 546, 1851.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.
 Stål, Hemip. Fabr., ii, p. 28, 1869.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 241, 1869.
 Butler, Cist. Ent., ii, p. 210, 1877.
 Murtfeldt, Ent. Am., iii, p. 177, 1887.
 Goding, Insect Life, v, p. 92, 1892.
 Rice, Insect Life, v, p. 243, 1893, *Entilia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 396, 1894 (part).
 Fowler, Biol. Centr. Am., Homop., ii, p. 130, pl. 8, fig. 12, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 209, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908; ix, p. 209, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
♂emarginata Fabricius, Ent. Syst., Suppl., p. 513, 1798, *Membracis*.
 Fabricius, Syst. Rhyn., p. 9, 1803, *Membracis*.
 Stål, Hemip. Fabr., ii, p. 28, 1869 (male of *sinuata*).
 Localities: N. J., N. C., Fla., Miss.

Genus *Publilia* StålOrthotype *concava* (Say)

- Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867 (nomen nudum).
 Stål, Berl. Ent. Zeit., x, p. 387, 1867 (valid here).
 Provancher, Pet. Fanne Ent. Can., iii, p. 245, 1889.
 Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 131, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908. (Key.)

1719. *Publilia concava* (Say)

- Say, Long's 2d Exped., ii, p. 301, 1824; Compl. Writ., i, p. 200, *Membracis*.
 Germar, Silb. Rev. Ent., iii, p. 249, 1835, *Entilia*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 301, 1846, *Entylia*.
 Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Entilia*.
 Walker, List Homop., ii, p. 547, 1851, *Entylia*.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Ceresa*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.
 Provancher, Pet. Fanne Ent. Can., iii, p. 245, 1889.
 Goding, Insect Life, v, p. 92, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
 Fowler, Biol. Centr. Am., Homop., ii, p. 131, 1896.
 Buckton, Monog. Membr., p. 184, pl. 39, fig. 4, 1903, *Entylia*.
 Buckton, Monog. Membr., p. 194, pl. 42, fig. 5, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

- Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 107, 1908.
 Matusch, Jl. N. Y. Ent. Soc., xviii, pp. 169, 262, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
grisea Buckton, Monog. Membr., p. 184, pl. 39, fig. 5, 1903.

a. var. **nigridorsum** Godgr.

- Godgr., Bul. Ill. St. Lab. Nat. Hist., iii, p. 399, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 106, 1908.
 Localities: Quebec, Ont., N. Y., N. J., N. C., Ohio, Ill., Ia., Mo.,
 Kans., Ark., Utah.

1720. **Publilia reticulata** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 106, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
 Localities: N. J., Pa., N. C., Mo.

1721. **Publilia modesta** Uhl.

- Uhler, Hayden's Surv. Terr. for 1870, p. 472, 1872 (*nomen nudum*).
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876; iii, p. 457, 1877.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333.
 Townsend, Can. Ent., xxiv, p. 195, 1892.
 Godgr., Insect Life, v, p. 92, 1892.
 Gillette and Baker, Hemip. Colo., p. 65, 1895.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Soc. Nat. Sci., ix, p. 107, 1908.
 Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915 (*habits*).
bicinctura Godgr., Ent. News, iii, p. 200, 1892.
 Godgr., Insect Life, v, p. 92, 1892.
 Localities: Dak., Colo., Utah, N. Mex., Ariz., Calif.

Subfamily **DARNINAE** (Stål)

- Stål, Hemip. Afr., iv, p. 83, 1866, *Darnida*.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867. (Key.)
 Godgr., Trans. Am. Ent. Soc., xix, p. 254, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 48, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

Genus **Aconophora** Fairm.

Logotype *laminata* Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 294, 1846.
 Stål, Of. Vet. Akad. Forh., xxiv, p. 558, 1867.
 Stål, Hemip. Fabr., ii, p. 34, 1869.
 Godgr., Trans. Am. Ent. Soc., xix, p. 256, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 61, 1895.
 Buckton, Monog. Membr., p. 127, 1902.

1722. ? *Aconophora lineosa* Walk.

Walker, List Homop., Suppl., p. 134, 1858.

Butler, Cist. Ent., ii, p. 352, 1878.

Locality: "N. Am." (Probably a *Platyecotis*.)Genus *Stictopelta* StålHaplotype *bipunctata* Burm.

Stål, Hemip. Fabr., ii, p. 32, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 115, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1723. *Stictopelta nova* Godg.

Goding, Ent. News, iii, p. 110, 1892.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 446, 1894.

Localities: Ariz., Calif.

1724. *Stictopelta marmorata* Godg.

Goding, Ent. News, iii, p. 201, 1892.

Townsend, Can. Ent., xxiv, p. 195, 1892.

Goding, Insect Life, v, p. 92, 1892.

Localities: Texas, N. Mex.

1725. *Stictopelta arizona* Godg.

Goding, Can. Ent., xxvii, p. 276, 1895.

Locality: Ariz.

Subfamily HOPLOPHORINAE (Stål)

Stål, Hemip. Afr., iv, p. 82, 1866, *Hoplophorida*.Stål, Hemip. Fabr., ii, p. 37, 1869, *Hoplophorida*.

Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.

Fowler, Biol. Centr. Am., Homop. ii, p. 31, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908, *Hoplophorida*.Genus *Umbonia* Burm.Haplotype *spinosa* Fabr.

Burmeister, Handb. d. Ent., ii, p. 138, 1835.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 274, 1846.

Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.

Stål, Hemip. Fabr., ii, p. 37, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.

Buckton, Monog. Membr., p. 83, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1726. *Umbonia crassicornis* (Am. & Serv.)Amyot and Serville, Hémip., p. 543, pl. 10, fig. 1, 1843, *Physoplia*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 225, 1846.

Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.

Provancher, Pet. Faune Ent. Can., iii, p. 249, 1889, *Physoplia*.*nigrita* Amyot and Serville, Hémip., p. 543, 1843, *Physoplia*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 275, pl. 4, figs. 6, 7, 1846.

Walker, List Homop., ii, p. 516, 1851, *Physoplia*.

Stål, Stet. Ent. Zeit., xxv, p. 69, 1864.

Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.

- orozimbo* Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 277, pl. 6, fig. 2, 1846.
 Walker, List Homop., ii, p. 519, 1851.
 Stål, Stet. Ent. Zeit., xxv, p. 69, 1864.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 265, 1869.
 Provancher, Pet. Faune Ent. Can., iii, p. 250, 1889.
 Fowler, Biol. Centr. Am., Homop., ii, p. 36, pl. 3, figs. 15-20, 1894.
 Buckton, Monog. Membr., pp. 85, 86, pl. 16, figs. 1-4, 1902.
media Walker, List Homop., ii, p. 516, 1851, *Physoplia*.
picta Walker, List Homop., Suppl., p. 130, 1858.
decorata Walker, List Homop., Suppl., p. 130, 1858.
intermedia Walker, Ins. Saund., Homop., p. 66, 1858, *Physoplia*.
 Localities: Ohio, S. C., Fla. (Mexico.)

1727. **Umbonia amazili** Fairm.

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 277, 1846.
 Walker, List Homop., ii, p. 519, 1851.
 Localities: "N. Am."
 [Buckton, Monog. Membr., p. 89, quotes N. Am. for *atalia* Fairm., but his determination cannot be trusted.]

Genus **Platycotis** Stål

Haplotype *vittata* Fabr.

- Stål, Hemip. Fabr., ii, pp. 36, 37, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 41, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix p. 109 1908.

1728. **Platycotis vittata** (Fabr.)

- Fabricius, Syst. Rhyng., p. 20, 1803, *Centrotus*.
 Coquebert, Illust. Icon. Ins., iii, p. 93, pl. 21, fig. 5, 1804, *Cercopis*.
 Fairmaire, Ann. Soc. Ent. Fr. sec. 2, iv, p. 273, 1846, *Hoplophora*.
 Walker, List Homop., ii, p. 511, 1851, *Hoplophora*.
 Stål, Hemip. Fabr., ii, p. 37, 1869.
 Buckton, Monog. Membr., p. 130, pl. 27, fig. 7, 1902, *Aconophora*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908.
sagittata Germar, Mag. d. Ent., iv, p. 19, 1821, *Membracis*.
 Germar, Silb. Rev. Ent., iii, p. 241, 1835, *Hoplophora*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, 1846, *Hoplophora*.
 Walker, List Homop., ii, p. 515, 1851, *Hoplophora*.
 Stål, Hemip. Fabr., ii, p. 37, 1869.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 263, 1869.
 Van Duzee, Psyche, v, p. 389, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908; ix, p. 209, 1909.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
belligera Say, Jl. Acad. Nat. Sci. Phila., vi, p. 302, 1824; Compl. Writ.,
 Walker, List Homop., ix, p. 1143, 1852, *Thelia*. [ii, p. 380, *Membracis*.
vittrata Burmeister, Handb. d. Ent., ii, p. 134, 1835, *Hoplophora*.
 Blanchard, Hist. des Ins., Hémipt., p. 181, 1840, *Oryrachis*.
humilis Walker, List Homop., ii, p. 514, 1851, *Hoplophora*.

- viridescens* Walker, List Homop., ii, p. 538, 1851, *Aconophora*.
 Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Aconophora*.
 Butler, Cist. Ent., ii, p. 351, 1878, *Aconophora*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 63, 1895, *Aconophora*.
guttifera Walker, List Homop., ii, p. 539, 1851, *Aconophora*.
nigro-maculata Provancher, Pet. Faune Ent. Can., iii, p. 251, 1889.
§nigrolineata Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 455, 1894.
- a. var. quadrivittata* (Say)
 Say, Jl. Acad. Nat. Sci. Phila., vi, p. 300, 1831; Compl. Writ., ii, p. 379,
 Walker, List Homop., iv, p. 1143, 1851, *Thelia*. [Membracis.
 Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia*.
 Butler, Cist. Ent., ii, p. 351, 1878, *Aconophora*.
 Provancher, Pet. Faune Ent. Can., iii, p. 250, 1889.
 Van Duzee, Psyche, v, p. 389, 1890.
 Goding, Can. Ent., xxv, p. 172, 1893.
 Buckton, Monog. Membr., p. 130, pl. 27, fig. 7, 1903.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Van Duzee, Can. Ent., xlv, p. 326, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
- 4-lineata* Germar, Silb. Rev. Ent., iii, p. 241, 1835, *Hoplophora*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, 1846, *Hoplophora*.
 Walker, List Homop., ii, p. 515, 1851, *Hoplophora*.
 Stål, Hemip. Fabr., ii, p. 37, 1869.
 Goding, Insect Life, v, p. 93, 1892, *Hoplophora*.
lineata Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 270, 1846, *Hoplophora*.
 Walker, List Homop., ii, p. 511, 1851, *Hoplophora*.
porrecta Walker, List Homop., ii, p. 538, 1851, *Aconophora*.
§rubrivittata Walker, List Homop., ii, p. 537, 1851, *Aconophora*.
§4-maculata Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 455, 1894.
 Localities: N. J., Pa., Md., D. C., N. C., Ga., Fla., Texas, Ariz.,
 Calif., Vanc. Isl. (Mexico.)

1729. **Platycotis minax** Godg.

- Goding, Ent. News, iii, p. 109, 1892.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914.
asodalis Goding, Ent. News, iii, p. 110, 1892, *Potnia*.
 Locality: Calif.

Genus **Lophopelta** Stål

Logotype *tuberculata* Fairm.

- Stål, Hemip. Fabr., ii, p. 37, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1730. **Lophopelta tuberculata** (Fairm.)

- Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, pl. 6, fig. 9, 1846, *Hoplophora*.
 Walker, List Homop., ii, p. 515, 1851, *Hoplophora*.
 Stål, Hemip. Fabr., ii, p. 37, 1869.
 Fowler, Biol. Centr. Am., Homop., ii, p. 42, pl. 4, figs. 2, 3, 1894.
 ?Buckton, Monog. Membr., p. 100, pl. 21, fig. 1, 1902, *Platycotis*.
 Localities: Calif. (Mexico.)

Subfamily MEMBRACINAE (Stål)

- Stål, Hemip. Afr., iv, p. 83, 1866, *Membracida*.
 Stål, Hemip. Fabr., ii, p. 38, 1869.
 Goding, Trans. Am. Ent. Soc., xix, pp. 253, 258, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 3, 1894.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 3, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908. (Key.)

Genus *Membracis* Fabr.

Logotype *atrata* Fabr.

- Fabricius, Syst. Ent., p. 675, 1775.
 Fabricius, Genera Ins., p. 172, 1777.
 Thunberg, Charac. Gen. Ins., edn. 2, p. 32, 1791.
 Walekenaer, Faune Paris., ii, p. 325, 1802.
 Fabricius, Syst. Rhyn., p. 6, 1803.
 Latreille, Genera Crust. Ins., iii, p. 158, 1807.
 Latreille, Consid. Génl., pp. 264, 434, 1810.
 Germar, Mag. d. Ent., iv, p. 11, 1821.
 Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 219, 1829 (restricted).
 Burmeister, Handb. d. Ent., ii, p. 135, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 179, 1840.
 Amyot and Serville, Hémip., p. 533, 1843.
 Stål, Hemip. Fabr., ii, p. 38, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 4, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908.

1731. *Membracis mexicana* Guer.

- Guerin, Icon. Règne Animal, p. 364, pl. 59, fig. 1, 1843.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 248, 1846.
 Walker, List Homop., ii, p. 478, 1851.
 Stål, Stet. Ent. Zeit., xxv, p. 67, 1864.
 Provancher, Pet. Faune Ent. Can., iii, p. 228, 1889.
 Fowler, Biol. Centr. Am., Homop., ii, p. 5, pl. 1, figs. 4, 5, 1894.
 Buckton, Monog. Membr., p. 35, pl. 2, figs. 5, 6, 1902 (*Phyllotropis* on p. 41).
 stolida Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 248, 1846.
 sermaculata Walker, Ins. Saund., Homop., p. 59, 1858.
 Localities: Calif. (Guerin). (Mexico.)

1732. ? *Membracis nigra* Oliv.

- Stoll, Cigales, p. 68, pl. 17, fig. 92, 1788, *Cicada* (without name).
 Olivier, Encyc. Méth., vii, p. 668, 1792 (named).
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 247, 1846.
 Walker, List Homop., ii, p. 477, 1851.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 461, 1894.
 Buckton, Monog. Membr., p. 40, 1902, *Phyllotropis*.
 compressa Fabricius, Syst. Rhyn., p. 9, 1803.
 Germar, Silb. Rev. Ent., iii, p. 225, 1835.
 Localities: "West States" (Goding). (Neotropical).
 [Doubtless a wrong determination.]

Genus **Enchophyllum** Am. & Serv.Logotype *cruciatum* (Germ.)

Amyot and Serville, Hémip., p. 534, 1843.

Stål, Hemip. Fabr., ii, p. 41, 1869.

Fowler, Biol. Centr. Am., Homop., ii, p. 7, 1894.

Subgenus **Phyllotropis** StålHaplotype *fasciatum* (Gmel.)

Stål, Hemip. Fabr., ii, p. 41, 1869.

1733. ? **Enchophyllum fasciatum** (Gmel.)Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2092, 1767, *Membracis*.Fabricius, Mant. Ins., ii, p. 262, 1787, *Membracis*.Fabricius, Ent. Syst., iv, p. 9, 1794, *Membracis*.Olivier, Encyc. Méth., vii, p. 662, 1794, *Membracis*.Fabricius, Syst. Rhyng., p. 9, 1803, *Membracis*.Germar, Silb. Rev. Ent., iii, p. 225, 1835, *Membracis*.Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 245, 1846, *Membracis*.Walker, List Homop., ii, p. 476, 1851, *Membracis*.

Stål, Hemip. Fabr., ii, p. 41, 1869.

Fowler, Biol. Centr. Am., Homop., ii, p. 7, 1894.

Buckton, Monog. Membr., p. 38, pl. 3, fig. 2, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

evallata Amyot and Serville, Hémip., p. 534, pl. 9, fig. 2, 1843, *Membracis*.

Localities: "N. Am." (Goding). (Neotropical.)

[Undoubtedly a wrong determination.]

Genus **Campylenchia** StålHaplotype *curvata* (Fabr.)

Stål, Hemip. Fabr., ii, pp. 39, 43, 1869.

Goding, Trans. Am. Ent. Soc., xix p. 259, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

1734. **Campylenchia latipes** (Say)Say, Long's 2d Exped., ii, p. 302, 1824; Compl. Writ., i, p. 202, *Membracis*.Germar, Silb. Rev. Ent., iii, p. 227, 1835, *Membracis*.Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 252, 1846, *Membracis*.Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Enchophyllum*.Walker, List Homop., ii, p. 482, 1851, *Enchenopa*.Uhler in Harris, Treat. Ins. Inj. Veg., edn. 3, pl. 221, 1862, *Enchenopa*.Provancher, Pet. Faune Ent. Can., iii, p. 229, 1889, *Enchenopa*.Buckton, Monog. Membr., p. 49, pl. 6, fig. 2, 1902, *Enchenopa*.

Van Duzee, Can. Ent., xlv, p. 326, 1912; xlv, p. 388, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.

antonina Walker, List Homop., ii, p. 488, 1851, *Enchenopa*.*venosa* Walker, List Homop., ii, p. 488, 1851, *Enchenopa*.*frigida* Walker, List Homop., ii, p. 490, 1851, *Enchenopa*.*bimacula* Walker, List Homop., ii, p. 491, 1851, *Enchenopa*.†*curvata* Stål, Hemip. Fabr., ii, p. 43, 1869.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876; iii, p. 457, 1877,

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333. [*Enchenopa*.]

Van Duzee, Psyche, v, p. 389, 1890.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Gillette and Baker, Hemip. Colo., p. 68, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 11, 1908.
 Van Duzee, Can. Ent., xl, p. 115, 1908.
 Matausch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 336, 1912.
 Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915.

Localities: Quebec, Ont., Me., Vt., N. Y., N. J., Pa., N. C., Ill.,
 Ia., Kans., Mo., Colo., Wyo., Mont., Texas, N. Mex., Ariz., Calif.

Genus **Enchenopa** Am. & Serv.

Haplotype *monoceros* Germ.

- Amyot and Serville, Hémip., p. 535, 1843.
 Walker, List Homop., ii, p. 481, 1851.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 467, 1856.
 Stål, Hemip. Fabr., ii, p. 42, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 8, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 111, 112, 1908.

1735. **Enchenopa binotata** (Say)

- Say, Long's 2d Exped., ii, p. 301, 1824; Compl. Writ., i, p. 201, *Membracis*.
 Germar, Silb. Rev. Ent., iii, p. 226, 1835, *Membracis*.
 Harris, Rept. Ins. Mass., p. 181, 1841, *Membracis*.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 251, 1846, *Membracis*.
 Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Enchophyllum*.
 Walker, List Homop., ii, p. 481, 1851.
 Emmons, Nat. Hist. N. Y., Ins., p. 156 (*Thelia*), pl. 13, fig. 17 (*Enchophyl-*
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 464, 1856. [*lum*], 1854.
 Uhler in Harris, Treat. Ins. Inj. Veg., edn. 3, p. 221, 1862.
 Walsh and Riley, Am. Ent., i, p. 248, 1868, *Enchophyllum*.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 272, 1869.
 Riley, Am. Ent., iii, p. 254, 1880, *Enchophyllum*.
 Lintner, 1st Rept. N. Y. St. Ent., p. 281, 1882.
 Dimmock, Psyche, iv, 241, 1885.
 Van Duzee, Can. Ent., xxi, p. 6, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 229, 1889.
 Van Duzee, Psyche, v, p. 389, 1890.
 Goding, Insect Life, v, p. 93, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
 Fowler, Biol. Centr. Am., Homop., ii, p. 9, pl. 1, fig. 10, 1894.
 Slosson, Ent. News, vii, p. 265, 1896.
 Buckton, Monog. Membr., p. 47, pl. 5, fig. 3, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 530, pl. 16, fig. 15, 1908.
 Howard, Insect Book, p. 238, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 112, 1908.

- Van Duzee, Can. Ent., xl, p. 115, 1908.
 Matusch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
 Matusch, Jl. N. Y. Ent. Soc., xx, p. 58, 1912.
 Matusch, Bul. Am. Mus. Nat. Hist., xxxi, p. 336, 1912.
 Van Duzee, Can. Ent., xxiv, p. 326, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
 Funkhauser, Jl. Econ. Ent., viii, p. 368, 1915 (life history).
brevis Walker, List Homop., ii, p. 492, 1851.
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 463, 1894.
bifusifera Walker, List Homop., Suppl., p. 125, 1858.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 273, 1869.
§bivittata Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869.
porrecta Buckton, Monog. Membr., p. 51, pl. 6, fig. 5, 1902.
 Localities: Quebec, Ont., Mass., N. H., N. Y., N. J., Pa., Md., D. C.,
 N. C., Fla., Ill., Ia., Mich., Kans., Mo., Texas.

1736. **Enchenopa permutata** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 112, 1908.
 Localities: Utah, Ariz.

Genus **Leioscyta** Fowl.

Orthotype *pallidipennis* Stål

- Fowler, Biol. Centr. Am., Homop., ii, p. 14, 1894.
 Buckton, Monog. Membr., p. 54, 1902.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.
 1737. **Leioscyta ferruginipennis** (Godg.)
 Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 468, 1894, *Tropidoscyta*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 113, 1908.
a. var. testacea Van D.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 113, 1908.
 Localities: Colo., Utah, Ariz., Calif.

1738. **Leioscyta pallidipennis** (Stål)

- Stål, Hemip. Fabr., ii, p. 46, 1869, *Tropidoscyta*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 14, pl. 1, fig. 21, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.
 Localities: Ariz. (Mexico.)

Genus **Multareis** Godg.

Orthotype *cornutus* Godg.

- Goding, Can. Ent., xxvii, p. 274, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.

1739. **Multareis cornutus** Godg.

- Goding, Can. Ent., xxvii, p. 275, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.
 Localities: Utah, Calif.

Genus **Tylopelta** Fowl.

Haplotype *gibbera* Stål

- Fowler, Biol. Centr. Am., Homop., ii, p. 15, 1894.

Buckton, Monog. Membr., p. 55, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

1740. **Tylopelta gibbera** (Stål)

Stål, Hemip. Fabr., ii, p. 46, 1869, *Tropidoscyta*.

Fowler, Biol. Centr. Am., Homop., ii, p. 15, pl. 2, fig. 1, 1894.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 469, 1894, *Tropidoscyta*.

Buckton, Monog. Membr., p. 55, pl. 7, fig. 7, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908. [*idoscyta*.

americana Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 469, 1894, *Trop-*

Localities: Texas, Ariz.

1741. **Tylopelta brevis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 115, 1908; ix, p. 209, 1909.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

Localities: N. C., Fla.

Genus **Bolbonota** Am. & Serv.

Haplotype *nissus* Germ.

Amyot and Serville, Hémip., p. 537, 1843.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 257, 1846.

Stål, Hemip. Fabr., ii, p. 46, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.

Fowler, Biol. Centr. Am., Homop., ii, p. 15, 1894.

Buckton, Monog. Membr., p. 61, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908.

Subgenus **Tubercunota** Godg.

Orthotype *melaena* Germ.

Goding, Can. Ent., xxv, p. 55, 1893.

Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.

1742. ? **Bolbonota tuberculata** Coqueb.

Coquebert, Illust. Icon. Ins., ii, p. 78, pl. 18, fig. 8, 1801, *Membracis*.

Fabricius, Syst. Rhyng., p. 22, 1803, *Centrotus*.

Burmeister, Hand. d. Ent., ii, p. 135, 1835, *Membracis*.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 260, 1846.

Walker, List Homop., ii, p. 496, 1851.

Stål, Hemip. Fabr., ii, p. 46, 1869.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 470, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 115, 1908.

Localities: "Fla." (Goding). (Neotropical.)

[Undoubtedly a wrong determination.]

Subgenus **Bolbonota** Am. & Serv.

Goding, Can. Ent., xxv, p. 55, 1893 (names *aurco-sericea* Stål type).

Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.

1743. **Bolbonota dubiosa** Van D.

Van Duzee, Can. Ent., xlv, p. 389, 1915 (n.n. for *aurcoscericca* Fowl.).

Van Duzee, Check List Hemip., p. 63, 1916.

||*aurcoscericca* Fowler, Trans. Ent. Soc. Lond. for 1894, p. 417.

Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.

Locality: "N. Am."

Genus **Centrodontus** Godg.Orthotype *atlas* Godg.

Goding, Ent. News, iii, p. 201, 1892.

Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.

?Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 110, 116, 1908.

1744. **Centrodontus atlas** (Godg.)Goding, Ent. News, iii, p. 110, 1892, *Gargara*; iii, p. 201, 1892.Townsend, Can. Ent., xxiv, p. 196, 1892, *Gargara*.

Goding, Insect Life, v, p. 92, 1892.

Riley, N. Am. Fauna, vii, p. 250, 1893, *Centrotus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 116, 1908.

Localities: Utah, N. Mex., Ariz., Calif.

Genus **Philya** Walk.Haplotype *bicolor* Walk.Walker, List Homop., Suppl., p. 126, 1858 (not *Philya* Stål, Hemip. Afr., i, Fowler, Biol. Centr. Am., Homop., ii, p. 21, 1904. [p. 33, 1864].

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

Acchmophora Stål, Hemip. Fabr., ii, p. 39, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.

1745. **Philya ferruginosa** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 466, 1894, *Acchmophora*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 116, 1908.

Locality: Ariz.

1746. **Philya californiensis** (Godg.)Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 466, 1894, *Acchmophora*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914 (descriptive note).

Locality: Calif.

[Goding erroneously credits *Sphongophorus ballista* Germ. to Ga. It is neotropical.]Subfamily **CENTROTINAE** (Spin.)Spinola, Tavola Sinot., p. 54, 1850, *Centrotoidæ*.Stål, Hemip. Afr., iv, pp. 83, 86, 1866, *Centrotida*. (Key.)Stål, Of. Vet. Akad. Forh., xxvi, p. 280, 1869, *Centrotida*. (Key.)Stål, Hemip. Fabr., ii, p. 49, 1869, *Centrotida*. (Key.)Stål, Of. Vet. Akad. Forh., xxvii, p. 727, 1870, *Centrotina*.

Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.

Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 146, 1894.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 9, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 31, 116, 1908, *Centrotida*.*Nudiscuti* Amyot and Serville, Hémip., pp. lxii, 549, 1843.Genus **Microcentrus** (Stål)Orthotype *caryæ* (Fitch)

Stål, Of. Vet. Akad. Forh., xxvi, p. 295, 1869.

Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.

Kirkaldy, Can. Ent., xxxix, p. 249, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

Phaulocentrus Fowler, Biol. Centr. Am., Homop., ii, p. 159, 1896.

Centruchoides Fowler, Biol. Centr. Am., Homop., ii, p. 161, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

1747. *Microcentrus caryae* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Uroxyphus*.

Walker, List Homop., iv, p. 1147, 1851, *Centrotus*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856, *Uroxyphus*.

Stål, Of. Vet. Akad. Forh., xvi, p. 295, 1869.

Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Uroxyphus*.

Van Duzee, Psyche, v, p. 391, 1890.

Packard, 5th Rept. U. S. Ent. Comm., p. 324, 1890, *Uroxyphus*.

Goding, Insect Life, v, p. 92, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

Matausch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

Localities: Ont., N. Y., N. J., Pa., N. C., Ohio.

1748. *Microcentrus perdita* (Am. & Serv.)

Amyot and Serville, Hémip., p. 577, pl. 11, fig. 5, 1843, *Ledra*.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 256, 1894, *Ledra*.

Baker, Can. Ent., xxix, p. 38, 1897, *Microcentrus*.

Osborn, Can. Ent., xxix, p. 89, 1897, *Centruchus*.

Goding, Can. Ent., xxix, p. 245, 1897 (as var. of *caryae*).

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908, *Centruchoides*.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910, *Centruchoides*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914, *Centruchoides*.

[*capra* Melsh. MS] Goding, Can. Ent., xxv, p. 172, 1893.

leibecki Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 471, 1894, *Centruchus*.

Localities: Mass., N. J., Pa., Fla., Colo., N. Mex.

Genus *Platycentrus* Stål

Logotype *acuticornis* Stål

Stål, Hemip. Fabr., ii, p. 48, 1869 (nomen nudum).

Stål, Of. Vet. Akad. Forh., xxvi, p. 291, 1869 (valid here).

Goding, Trans. Am. Ent. Soc., xix, p. 254, 1892.

Fowler, Biol. Centr. Am., Homop., ii, pp. 147, 148, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

1749. *Platycentrus acuticornis* Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 291, 1869.

Riley, N. Am. Fauna, vii, p. 250, 1893.

Fowler, Biol. Centr. Am., Homop., ii, p. 148, pl. 9, fig. 10, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 118, 1908.

Localities: Ariz., Calif. (Mexico.)

Genus **Tylocentrus** Van D.Haplotype *reticulatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 118, 1908.

Van Duzee, Can. Ent., xli, p. 384, 1909 (cites *reticulatus* as type).1750. **Tylocentrus reticulatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 119, 1908.

Localities: Texas, Ariz., Utah, Nev.

Genus **Tuberculocentrus** Godg.Haplotype *solus* Godg.

Goding, Can. Ent., xxvii, p. 275, 1895.

1751. **Tuberculocentrus solus** Godg.

Goding, Can. Ent., xxvii, p. 276, 1895.

Locality: Calif.

Genus **Centrotus** Fabr.Logotype *cornutus* (Linn.)

Fabricius, Syst. Rhyng., p. 16, 1803.

Germar, Mag. d. Ent., iv, p. 31, 1821.

Fallén, Hemip. Succ., Cicad., p. 8, 1826.

Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 255, 1835.

Burmeister, Handb. d. Ent., ii, p. 131, 1835.

Westwood, Intrd. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *cornuta*

Blanchard, Hist. des Ins., Hémipt., p. 182, 1840. [type].

Amyot and Serville, Hémipt., p. 550, 1843.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 509, 1846 (part).

Spinola, Tavola Sinot., p. 54, 1850.

Flor, Rhyng. Livl., ii, p. 102, 1861.

Stål, Hemip. Afr., iv, pp. 88, 93, 1866.

Stål, Of. Vet. Akad. Forh., xxvi, p. 282, 1869.

Fieber, Cicad. d'Eur., i, p. 47, 1875.

Edwards, Hemip. Homop. Brit. Isds., p. 19, pl. 1, fig. 11, 1896.

Distant, Fauna Brit. Ind., Rhyng., iv, p. 45, 1908.

Acanthicus Laporte, Ann. Soc. Ent. Fr., i, p. 227, 1832.1752. **Centrotus cornutus** (Linn.)Linnaeus, Syst. Nat., edn. 10, i, p. 435, 1758, *Cicada*.Geoffroy, Hist. Abrég. des Ins., i, p. 423, No. 18, pl. 9, fig. 2, 1762, *Cicada*.Scopoli, Ent. Carn., p. 115, 1763, *Cicada*.Linnaeus, Syst. Nat., edn. 12, i, p. 705, 1767, *Cicada*.Fabricius, Syst. Ent., p. 676, 1775, *Membracis*.Goeze, Ent. Beytr., ii, p. 128, 1778, *Cicada*.Fabricius, Spec. Ins., ii, p. 317, 1781, *Cicada*.Retzius, Genera et Spec. Ins., p. 81, 1783, *Cicada*.Foueroy, Ent. Paris., i, p. 189, 1785, *Cicada*.Fabricius, Mant. Ins., ii, p. 264, 1787, *Cicada*.Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2094, 1788, *Cicada*.Fabricius, Ent. Syst., iv, p. 14, 1794, *Membracis*.Lamarek, Syst. Anim. s. Vert., p. 292, 1801, *Tettigonia*.Walekenae, Faune Paris., ii, p. 325, 1802, *Membracis*.

Fabricius, Syst. Rhyng., p. 19, 1803.

Germar, Mag. d. Ent., iv, p. 32, 1821.

- Fallén, Hemip. Suec., Cicad., p. 8, 1826.
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 219, 1829.
 Burmeister, Handb. d. Ent., ii, p. 132, 1835.
 Germar, Silb. Rev. Ent., iii, p. 256, 1835.
 Herrich-Schaeffer, Nomen. Ent., i, p. 66, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 182, 1840.
 Amyot and Serville, Hémip., p. 551, 1843.
 Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 514, 1846.
 Walker, List Homop., ii, p. 610, 1851.
 Flor, Rhyn. Livl., ii, p. 104, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 67, 1868.
 Sahlberg, Cicad., p. 98, 1870.
 Fieber, Cicad. d'Eur., ii, p. 10, 1876.
 Melichar, Cicad. Mitt. Eur., p. 16, figs. 18-22, 1896.
 Buckton, Monog. Membr., p. 245, pl. 56, fig. 7, 1903.
 Distant, Ann. Mag. Nat. Hist., ser. 8, p. 155, 1916.
 Van Duzee, Check List Hemip., p. 63, 1916.
fusca De Geer, Mémoires, iii, p. 118, pl. 11, fig. 22, 1773, *Cicada*. [trus.
rugosus Buckton, Monog. Membr., p. 243, pl. 56, fig. 3, 1903, *Campylocen-*
 Localities: Pa. (Ziegler in Mus. Comp. Zool., Cambr.). (Palae-
 arctic.)

Subfamily AETHALIONINAE (Spin.)

- Spinola, Tavola Sinot., p. 54, 1850, *Aethalionoidcae*.
 Ashmead, Ent. Am., v, p. 125, 1889 (as subfam. of *Bythoscopidae*).
 Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892, *Aethalionini*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 170, 1897.

Genus *Aethalion* Latr.

Orthotype *reticulata* (Fabr.)

- Latreille, Consid. Gèn., p. 263, 1810.
 Hoffmannsegg, Wied. Zool. Mag., i, pt. 2, p. 92, 1817, *Aethalia*.
 Germar, Mag. d. Ent., iv, p. 94, 1821, *Aethalia*.
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 220, 1829.
 Germar, Silb. Rev. Ent., i, p. 179, 1833, *Aethalia*.
 Burmeister, Handb. d. Ent., ii, p. 108, 1835, *Aethalia*.
 Blanchard, Hist. des Ins., Hémip., p. 198, 1840.
 Amyot and Serville, Hémip., p. 556, 1843.
 Spinola, Tavola Sinot., p. 54, 1850.
 Signoret, Ann. Soc. Ent. Fr., ser. 2, ix, p. 670, 1851.
 Walker, List Homop., iii, p. 646, 1851.
 Stål, Hemip. Fabr., ii, p. 49, 1869.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 296, 1869.
 Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 170, 1897.
 ‡*Cetalion* Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.

1753. *Aethalion nervoso-punctatum* Sign.

- Signoret, Ann. Soc. Ent. Fr., ser. 2, ix, p. 679, pl. 14, fig. 10, 1851.
 Stål, Of. Vet. Akad. Forh., xxvi, p. 299, 1869.
 Fowler, Biol. Centr. Am., Homop., ii, p. 172, pl. 10, fig. 20, 1897.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 53, 1907.
 Localities: Ariz. (West Indies, Mexico.)

Family **CICADELLIDAE** (Latr.)

- Latreille, Fam. Nat. Règne Animal, p. 427, 1825, *Cicadellae*.
 Germar, Silb. Rev. Ent., i, p. 178, 1833 (includes *Cercopidae*).
 Burmeister, Handb. d. Ent., ii, p. 103, 1835, *Cicadellina*.
 Blanchard, Hist. des Ins., Hémipt., p. 187, 1840, *Cicadellins*.
 Walker, List Homop., iii, p. 637, 1851, *Cicadellina* (includes *Cercopidae*).
 Flor, Rhyn. Livl., ii, p. 107, 1861, *Cicadellina* (includes *Cercopidae*).
 Van Duzee, Check List Hemip., p. 63, 1916.
 Lathrop, Ohio Jl. Sci., xvii, p. 119, 1917 (South Carolina species).
 Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 79, 1917 (Wisconsin species).
Scirripedes Amyot and Serville, Hémipt., p. 569, 1843.
Tettigoniæ Spinola, Tavola Sinot., pp. 27, 56, 1850 (includes *Cercopidae*).
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 295, 1907; iii, pp. 9, 23,
Jassina Stål, Stet. Ent. Zeit., xix, p. 234, 1858. [1907.
 Dohrn, Cat. Hemip., p. 83, 1859.
 Stål, Stet. Ent. Zeit., xxv, p. 73, 1864.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866, *Jassidae*.
 Stål, Hemip. Afr., iv, p. 99, 1866, *Jassida*.
 Kirschbaum, Cicad. v. Wiesb., p. 69, 1868.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 727, 1870 (includes *Membracidae*).
 Sahlberg, Cicad., pp. 67, 99, 1871.
 Fieber, Kat. Europ. Cicad., p. 8, 1872, *Jassida*.
 Fieber, Cicad. d'Eur., i, p. 99, 1875, *Jassida*.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 9, 1887, *Jassidae*.
 Hansen, Ent. Tidskr., xi, p. 64, 1890, *Jassidae* (morphology). [fam.).
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 295, 1892, *Jassoidæ* (Super-
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 245, 1894, *Jassoidæ* (Cata-
 Melichar, Cicad. Mitt. Eur., p. 131, 1896, *Jassidae*. [logue).
 Kirkaldy, Transl. of Hansen, Entomol., xxxiii, p. 118, 1900; xxxiv, p.
 [152, 1901; xxv, pp. 217, 234, 1902.
 Osborn, 20th Rept. N. Y. St. Ent., p. 500, 1905, *Jassoidæ*.
 Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 66, 1906, *Jassidae*.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 157, 1908, *Jassidae*.
 Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910, *Jassoidæ*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 28, 1911, *Jassidae*.
 Metcalfe, Ann. Ent. Soc. Am., vi, p. 103, 1913, *Jassidae* (wing venation).

Subfamily **PAROPINAE** (Dohrn)

- Dohrn, Cat. Hemip., p. 83, 1859, *Paropidae*.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866, *Paropidae*.
 Sahlberg, Cicad., pp. 72, 373, 1871, *Paropidae*.
 Fieber, Kat. Europ. Cicad., p. 7, 1872.
 Fieber, Cicad. d'Eur., i, p. 43, 1875.
 Melichar, Cicad. Mitt. Eur., p. 130, 1896, *Paropidae*.
 Van Duzee, Check List Hemip., p. 63, 1916.
Koebeliidae Baker, Psyche, viii, p. 76, 1897.
Megophthalminæ Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 296, 1906.
 Oshanin, Verz. Palae. Hemip., ii, p. 47, 1906.
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 24, 89, 1907.
 Oshanin, Kat. Palae. Hemip., p. 99, 1912.

Genus **Koebelia** Bak.Orthotype *californica* Bak.

Baker, Psyche, viii, p. 76, 1897.

1754. **Koebelia californica** Bak.

Baker, Psyche, viii, p. 76, 1897.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Locality: Calif.

1755. **Koebelia irrorata** Ball

Ball, Can. Ent., xli, p. 185, 1909.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Ariz., Calif.

1756. **Koebelia coronata** Ball

Ball, Can. Ent., xli, p. 185, 1909.

Locality: Calif.

1757. **Koebelia grossa** Ball

Ball, Can. Ent., xli, p. 185, 1909.

Locality: Calif.

Genus **Paropulopa** Fieb.Haplotype *lineata* Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866.

Kirschbaum, Cicad. v. Wiesbd., pp. 14, 69, 1868.

Fieber, Cicad. d'Eur., i, p. 99, pl. 11, figs. 33, 36, 1875; ii, pl. 9, 1876.

1758. **Paropulopa interrupta** Ball

Ball, Can. Ent., xxxiv, p. 21, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914, *Koebelia*.

Locality: Calif.

1759. **Paropulopa friscana** Ball

Ball, Can. Ent., xli, p. 183, 1909.

Locality: Calif.

1760. **Paropulopa arborea** Ball

Ball, Can. Ent., xli, p. 184, 1909.

Locality: Calif.

1761. **Paropulopa californica** Ball

Ball, Can. Ent., xli, p. 184, 1909.

Locality: Calif.

Subfamily **BYTHOSCOPIINAE** (Dohrn)

Dohrn, Cat. Hemip., p. 84, 1859, *Bythoscopidae*.

Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 449, 1868, *Bythoscopida*.

Sahlberg, Cicad., pp. 68, 113, 1871, *Bythoscopidae*.

Fieber, Kat. Eur. Hemip., p. 8, 1872, *Bythoscopidae*.

Fieber, Cicad. d'Eur., ii, p. 100, 1876, *Bythoscopidae*.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 48, 1879, *Bythoscopides*.

Berg, Hemip. Arg., p. 276, 1879, *Bythoscopina*.

- Ashmead, Ent. Am., iv, p. 67, 1888; v, p. 125, 1889, *Bythoscopidae*.
 Van Duzee, Ent. Am., v, p. 165, 1889, *Bythoscopidae*. (Key.)
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Bythoscopidae*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 500, 1905, *Bythoscopidae*.
 Matsumura, Schrift. Nat. Ges. Danz., xi, p. 72, 1906, *Bythoscopidae*.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 183, 1908.

Agallinae Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, pp. 296, 345, 1906.

Eurymelini Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 24, 29, 1907.

Genus *Agallia* Curt.

Haplotype *consobrina* Curt. = *puncticeps* Germ.

- Curtis, Ent. Mag., i, p. 193, 1833.
 Kirschbaum, Die Gatt. Idiocrus, p. 3, 1868.
 Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, pp. 450, 462, 1868.
 Sahlberg, Cicad. p. 151, 1871.
 Fieber, Cicad. d'Eur., i, p. 103, 1875; ii, pl. 9, 1876.
 Mayr, Tabellen, p. 27, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 125.
 Ashmead, Ent. Am., v, p. 126, 1889.
 Van Duzee, Ent. Am., v, p. 166, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 296, 1889.
 Melichar, Cicad. Mitt. Eur., p. 169, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 110, 1896.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 45, 1897.

Subgenus *Agalliopsis* Kirk.

Orthotype *novella* Say

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 31, 1907.

Agallia group II, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.

1762. *Agallia novella* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 309, 1831; Compl. Writ., ii, p. 384, *Jassus*.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Van Duzee, Psyche, v, p. 389, 1890.
 Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890, *Idiocrus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
 Slosson, Ent. News, vi, p. 321, 1895.
 Gillette and Baker, Hemip. Colo., p. 80, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 54, pl. 1, fig. 2, 1898.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 Van Duzee, Can. Ent., xl, p. 116, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 209, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
 Gibson and Cogam, Ohio Jl. Sci., xvi, p. 72, 1915.
 Osborn, Me. Ag. Exp. Sta., Bul. 238, p. 96, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 13, 1916.

gnobilis Forbes, 14th Rept. Ill. St. Ent., p. 22, 1884, *Macropsis*.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Va.,
N. C., Fla., Ohio, Mich., Ky., Tenn., Mo., Kans., Colo., Vane. Isd.

1763. *Agallia oculata* Van D.

Van Duzee, Ent. Am., vi, p. 38, 1890.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 57, 1898.

Ball, Psyche, ix, p. 127, 1900.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914.

Localities: Ont., N. Y., Calif.

Subgenus *Agallia* Curt.

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 11, 31, 1907.

Agallia Group I, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.

1764. *Agallia 4-punctata* Prov.

Provancher, Nat. Can., iv, p. 376, 1872, *Bythoscopus*.

Van Duzee, Ent. Am., v, p. 167, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 296, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.

Gillette and Baker, Hemip. Colo., p. 80, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 48, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 12, 1916.

[*flaccida* Uhl. MS] Van Duzee, Can. Ent., xxi, p. 9, 1889. [(young).]

canadensis Van Duzee, Trans. Am. Ent. Soc., xix, p. 301, 1892, *Ulopa*

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894 (young).

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C.,
N. C., Ga., Fla., Ohio, Ky., Tenn., Ark., Kans., Neb., Ia., Colo.,
Br. Col., Calif.

1765. *Agallia constricta* Van D.

Van Duzee, Can. Ent., xxvi, p. 90, 1894.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 52, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 13, 1916.

Localities: N. Y., N. J., Pa., N. C., Fla., Ky., Tenn., Miss., Mo., Kans., Texas.

1766. *Agallia deleta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.

Locality: Fla.

1766½. *Agallia immaculata* Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 120, 1917.

Locality: S. C.

(Probably not distinct from preceding.)

Subgenus *Aceratagallia* Kirk.

Orthotype *sanguinolenta* Prov.

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 11, 30, Sept., 1907.

Agallia Group III, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.

**Ceratagallia* Kirkaldy, Haw. S. P. A., Exp. St. Bul., iv, p. 61, May, 1907.

[(Catalogue name.)]

1767. *Agallia sanguinolenta* (Prov.)

Provancher, Nat. Can., iv, p. 376, 1872, *Bythoscopus*.

Van Duzee, Ent. Am., v, p. 166, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 296, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.

Gillette and Baker, Hemip. Colo., p. 81, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 58, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Van Duzee, Can. Ent., xl, p. 116, 1908; xli, p. 128, 1909.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 103, fig. 29, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 97, 1915.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.

Gibson, Can. Ent., xlviii, p. 178, 1916.

Gibson, U. S. Dept. Agr., Farmer's Bul. 737, 1916.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 14, 1916.

siccifolius Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 359, 1876, *Bythoscopus*.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Bythoscopus*.

Van Duzee, Can. Ent., xxi, p. 9, 1889.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., D. C., Md., Va., N. C., S. C., Fla., Ala., Miss., Ohio, Ky., Tenn., Ind., Ia., Mo., Kans., Ark., Neb., N. D., Colo., Wyo., Utah, N. Mex., Calif., Br. Col.

1768. *Agallia uhleri* Van D.

- Van Duzee, Can. Ent., xxvi, p. 91, 1894.
 Gillette and Baker, Hemip. Colo., p. 81, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 59, 1898.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
 [*venata*, *enervis* and *longula* Uhler MS] (in collections).
 Localities: Mo., Ia., Wyo., N. Mex., Ariz., Calif.

1769. *Agallia gillettei* O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 60, 1898.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
 Localities: Mo., Ariz.

1770. *Agallia bigeloviae* Bak.

- Baker, Psyche, vii, Suppl., i, p. 26, 1896.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 62, 1898 (*biglovia*).
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., iv, p. 61, 1907, *Ceratagallia*.
 Localities: N. Mex., Ariz., Colo. (Mexico.)

1771. *Agallia cinerea* O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 62, 1898.
 Ball, Psyche, ix, p. 128, 1900.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 14, 1916.
ineconspicua Baker, Psyche, viii, p. 198, 1898 (as var. of *sanguinolenta*)
 Localities: Tenn., Ia., Kans., Colo., Ariz., Calif.

1772. *Agallia californica* Bak.

- Baker, Psyche, viii, p. 199, 1898.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
 Locality: Calif.

1773. *Agallia lyrata* Bak.

- Baker, Psyche, viii, p. 199, 1898.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
?peregrinans Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 64, 1898.
 Ball, Psyche, ix, p. 128, 1900.
 Localities: Fla.?, Calif., Vanc. Isd.

1774. ?*Agallia peregrinans* Stål

- Stål, Freg. Eug. Resa, Ins., p. 291, 1859, *Bythoscopus*.
 Berg, Hemip. Arg., Add., p. 176, 1884.
 Kirkaldy, Ann. Soc. Ent. Belg., li, p. 121, 1907.
 Localities: Calif.(?). (Tahiti, Oahu.)
 [This may be *lyrata* as suggested by Ball.]

[*Agallia variata* Uhl. MS]

- Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Locality: Fla.

Genus **Idiocerus** Lewis
Haplotype *adustus* H. S.

- Lewis, Trans. Ent. Soc. Lond., i, p. 47, 1835.
 Burmeister, Genera Ins., i, pl. 10, 1838 (*Bythoscopus*, subgenus).
 Amyot and Serville, Hémip., p. 585, 1843.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
 Kirschbaum, Die Gatt. Idiocerus, pp. 3, 4, 1868.
 Kirschbaum, Cicad. v. Wiesbd., pp. 16, 152, 1868.
 Sahlberg, Cicad., pp. 69, 137, 1871.
 Fieber, Cicad. d'Eur., i, p. 100, pl. 11, figs. 39, 40, 1875; ii, pl. 9, 1876.
 Edwards, Ent. Mo. Mag., xx, p. 113, 1883 (table of British species).
 Mayr, Tabellen, p. 26, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 114, pl. 2, fig. 4.
 Ashmead, Ent. Am., v, p. 126, 1889.
 Van Duzee, Ent. Am., v, p. 166, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 291, 1890.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 12, 1898. (Key.)
 Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 29, 1907.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 184, 1908.

1775. **Idiocerus amoenus** Van D.

- Van Duzee, Can. Ent., xxvi, p. 89, 1894 (*amoenus* by error).
 Gillette and Baker, Hemip. Colo., p. 74, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 135, 1898.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
a. var. depictus Ball
 Ball, Can. Ent., xxxiv, p. 313, 1902.
 Localities: Colo., Calif.

1776. **Idiocerus amabilis** Ball

- Ball, Can. Ent., xxxiv, p. 306, 1902.
 Localities: Colo., Br. Col., Calif.

1777. **Idiocerus nervatus** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 194, 205, 1894.
 Gillette and Baker, Hemip. Colo., p. 76, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 137, 1898.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.
 Localities: N. Y., N. J., Pa., Fla., Mich., Ia., Mo., Kans., Colo.,
 Ariz., Calif.

1778. **Idiocerus pallidus** Fitch

- Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
 Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 359, 1876; iii, p. 465, 1877, *Bythos-*
scopus.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Provaucher, Pet. Faune Ent. Can., iii, p. 291, 1889.
 Van Duzee, Psyche, v, 388, 1890.
 Harrington, Ottawa Nat., vi, p. 31, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
 Gillette and Baker, Hemip. Colo., p. 76, 1895.
 Slosson, Ent. News, vi, p. 5, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 135, 1898.
 Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Van Duzee, Can. Ent., xl, p. 116, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.
obsoletus Walker, List Homop., iii, p. 873, 1851, *Bythoscopus*.
unicolor Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
 Localities: Quebec, Ont., Me., N. H., Mass. N. Y., N. J., Pa., Tenn.,
 Ia., Kans., Colo., Calif.

1779. *Idiocerus suturalis* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
 Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Van Duzee, Psyche, v, p. 388, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
 Slosson, Ent. News, vi, p. 5, 1895.
 Gillette and Baker, Hemip. Colo., p. 80, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 134, 1898.
 Ball, Can. Ent., xxxiv, p. 311, 1902.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
 Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
 Van Duzee, Can. Ent., xl, p. 116, 1908.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 94, 1915.
- a. var. lunaris* Ball
 Ball, Can. Ent., xxxiv, p. 311, 1902.
 Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.
- b. var. continuus* Ball
 Ball, Can. Ent., xxxiv, p. 312, 1902.
- c. var. vagus* Ball
 Ball, Can. Ent., xxxiv, p. 312, 1902.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Localities: Quebec, Ont., Me., N. H., N. Y., Ohio, Mich., Kans.,
 Colo., N. Mex., Manitoba.

1780. *Idiocerus duzeei* Prov.

- Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 136, 1898.
 Baker, Can. Ent., xxxii, p. 207, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
perplexus Gillette and Baker, Hemip. Colo., p. 78, 1895.
 Baker, Ent. News, viii, p. 54, 1897.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 65, 1907.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.
 Localities: Quebec, Ont., Me., N. H., Pa., Kans., Colo.

1781. *Idiocerus alternatus* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
 Van Duzee, Can. Ent., xxi, p. 8, 1889.
 Van Duzee, Psyche, v, p. 388, 1890.
 Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
 Gillette and Baker, Hemip. Colo., p. 73, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 70, 131, pl. 3, fig. 1, 1898.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Van Duzee, Can. Ent., xl, p. 116, 1909; xlv, p. 329, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
interruptus Gillette and Baker, Hemip. Colo., p. 74, 1895.
 Localities: Quebec, Ont., Me., N. H., N. Y., Pa., N. C., Ohio, Tenn.,
 Mich., Ia., Colo., Utah, Calif.

1781½. *Idiocerus subnitens* S. & D.

- Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 82, 1917.
 Locality: Wis.

1782. *Idiocerus verticis* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 308, 1831; Compl. Writ., ii, p. 383, *Jassus*.
 Walker, List Homop., iv, p. 1164, 1852, *Jassus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 465, 1877, *Bythoscopus*.
 Van Duzee, Psyche, v, p. 389, 1890.
 Harrington, Ottawa Nat., vi, p. 31, 1892 (noticed).
 Gillette and Baker, Hemip. Colo., p. 80, 1895.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 132, 1898.
 Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.
 Localities: Me., Tenn., Ia., Mo., Colo.

1783. *Idiocerus concinnus* Ball

- Ball, Can. Ent., xxxiv, p. 306, 1902.
 Localities: Calif., Vanc. Isd.

1784. *Idiocerus rufus* G. & B.

Gillette and Baker, Hemip. Colo., p. 80, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 133, 1898.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

a. var. cingulatus Ball

Ball, Can. Ent., xxxiv, p. 312, 1902.

Locality: Colo.

1785. *Idiocerus musteus* Ball

Ball, Can. Ent., xxxiv, p. 308, 1902.

Localities: Calif., Vanc. Isd.

1786. *Idiocerus obstinatus* Ball

Ball, Can. Ent., xxxiv, p. 310, 1902.

Locality: Ariz.

1787. *Idiocerus morosus* Ball

Ball, Can. Ent., xxxiv, p. 309, 1902.

Locality: Colo.

1788. *Idiocerus verrucosus* Ball

Ball, Can. Ent., xxxiv, p. 309, 1902.

Localities: Colo., Calif.

1789. *Idiocerus ensiger* Ball

Ball, Can. Ent., xxxiv, p. 308, 1902.

Ball, Ohio Nat., iii, p. 399, 1903.

Localities: Colo., Calif.

1790. *Idiocerus productus* G. & B.

Gillette and Baker, Hemip. Colo., p. 78, 1895.

Baker, Can. Ent., xxxii, p. 208, 1900.

Slosson, Ent. News, xvii, p. 326, 1906.

Localities: N. H., Colo.

1791. *Idiocerus femoratus* Ball

Ball, Can. Ent., xxxiv, p. 307, 1902.

Localities: Colo., Calif.

1792. *Idiocerus moniliferae* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 71, 131, pl. 3, fig. 2, 1898.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Localities: Ia., Kans.

1793. *Idiocerus scurra* (Germ.)

Germar, Fauna Ins. Eur., xvii, p. 11, 1834, *Jassus*.

Herrich-Schaeffer, Nomen. Ent., i, pp. 69, 112, 1835, *Bythoscopus*.

Burmeister, Genera Ins., pl. 10, 1838 (listed).

Walker, List Homop., iii, p. 859, 1851, *Bythoscopus*.

Kirschbaum, Die Gattung *Idiocerus*, p. 18, 1868 (note).

Kirschbaum, Cicad. v. Wiesbdl., p. 160, 1868 (note).

Melichar, Cicad. Mitt. Eur., p. 151, 1896.

♀*crenatus* Germar, Fauna Ins. Eur., xvii, p. 10, 1834, *Jassus*.

Kirschbaum, Cicad. v. Wiesbld., p. 167, 1868, *Bythoscopus*.

germari Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 451, 1868.

gemmisimulans Leonard and Crosby, Jl. Econ. Ent., viii, p. 542, pl. 30, 1915.

Localities: N. Y. (Europe.)

1794. *Idiocerus formosus* Ball

Ball, Can. Ent., xxxiv, p. 305, 1902.

Slosson, Ent. News, xvii, p. 326, 1906.

Localities: N. H., Colo., Calif.

1795. *Idiocerus lachrymalis* Fitch

Fitch, Homop. N. Y. St. Cab., p. 58, 1851.

Van Duzee, Can. Ent., xxi, p. 8, 1889.

Van Duzee, Psyche, v, p. 388, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.

Slosson, Ent. News, vi, p. 5, 1895.

Gillette and Baker, Hemip. Colo., p. 76, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 130, 1898.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Van Duzee, Can. Ent., xl, p. 116, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.

†*subbifasciatus* Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Colo., N. Mex.

1796. *Idiocerus ramentosus* (Uhler)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 465, 1877, *Bythoscopus*.

Van Duzee, Psyche, v, p. 389, 1890.

Gillette and Baker, Hemip. Colo., p. 79, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 137, 1898.

inscriptus Uhler MS (in collections).

†*verticis* Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.

mimicus Gillette and Baker, Hemip. Colo., p. 76, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898. [fig. 3, 1898.]

brunneus Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 72, 129, pl. 3,

Localities: Ia., Neb., Colo., Ariz., Vauc. Isl.

1797. *Idiocerus snowi* G. & B.

Gillette and Baker, Hemip. Colo., p. 79, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 129, 1898.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.

Localities: N. Y., Ohio, Kans., Mo., Colo., Utah, Calif.

1798. *Idiocerus dolosus* Ball

Ball, Can. Ent., xxxiv, p. 304, 1902.

Locality: Colo.

1799. *Idiocerus distinctus* G. & B.

Gillette and Baker, Hemip. Colo., p. 75, 1895.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898.

Locality: Colo.

1800. *Idiocerus crataegi* Van D.

Van Duzee, Can. Ent., xxii, p. 110, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 128, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.

Localities: Ont., N. Y., Pa., Ohio, Ia., Mo., Colo.

1801. *Idiocerus provancheri* Van D.

Van Duzee, Can. Ent., xxii, p. 111, 1890 (n.n. for †*clitellarius* Prov.).

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.

Slosson, Ent. News, vii, p. 265, 1896.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 127, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 77, 1916.

†*clitellarius* Provancher, Pet. Faune Ent. Can., iii, p. 288, 1890, *Bythoscopus*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Pa., Ia., Colo.,

Br. Col.

1802. *Idiocerus fitchi* Van D.

Van Duzee, Can. Ent., xli, p. 383, 1909 (n.n. for *maculipennis* Fl.).

||*maculipennis* Fitch, Homop. N. Y. St. Cab., p. 59, 1851.

Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus*.

Van Duzee, Psyche, v, p. 388, 1890.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 73, 127, pl. 3, fig. 4, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.

Localities: Ont., Me., N. Y., Pa., Ohio, Ia.

1803. *Idiocerus striola* Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvii, p. 453, 1868.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898.

Ashmead, Harriman Alaska Exped., viii, p. 131, 1904.

Locality: Alaska.

Genus **Macropsis** Lewis
 Logotype *virescens* (Gmel.)

- Lewis, Trans. Ent. Soc. Lond., i, p. 49, 1835. [type].
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *virescens*
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, pp. 30, 36, 1907.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Van Duzee, Check List Hemip., p. 64, 1916.
Pediopsis Burmeister, Gen. Ins., pl. 10, 1838.
 Amyot and Serville, Hémip., p. 586, 1843.
 Stål, Hemip. Afr., iv, p. 128, 1866.
 Kirschbaum, Die Gat. Idiocerus, p. 4, 1868.
 Kirschbaum, Cicad. v. Wiesbd., pp. 16, 169, 1868.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
 Thomson, Opusc. Ent., i, p. 316, 1870.
 Sahlberg, Cicad., pp. 68, 116, 1871.
 Fieber, Cicad. d'Eur., i, p. 102, 1875; ii, pl. 9, 1876.
 Mayr, Tabellen, p. 27, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 108.
 Ashmead, Ent. Am., v, p. 125, 1889.
 Van Duzee, Ent. Am., v, p. 167, 1889 (monograph).
 Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 259, 1894 (catalogue).
 Melichar, Cicad. Mitt. Eur., p. 139, 1896.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 111, 1898 (monograph).

1804. **Macropsis nubila** (Van D.)

- Van Duzee, Ent. Am., vi, p. 37, 1890, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 123, 1898, *Bythoscopus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Locality: Calif.

1805. **Macropsis punctifrons** (Van D.)

- Van Duzee, Ent. Am., v, p. 174, 1889, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 122, 1898, *Pediopsis*.
 Locality: Ariz.

1806. **Macropsis reversalis** (O. & B.)

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 69, 123, 1898, *Pediopsis*.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904, *Pediopsis*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis*.
 Localities: N. Y., Pa., Ia.

1807. **Macropsis gleditschiae** O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 67, 122, 1898, *Pediopsis*.
 Wirtner, Ann. Carn. Mus., iii, p. 218, 1904, *Pediopsis*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 16, 1916, *Pediopsis*.
 Localities: Pa., Tenn., Ia., Mo.

1808. **Macropsis virescens** (Gmel.)

- Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2111, 1788 (*Cicada*).
 Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada*.
 Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada*.

- Germar, Mag. d. Ent., iv, p. 45, 1821, *Jassus*.
 Fallén, Hemip. Succ., Cicad., p. 52, 1826, *Cicada*.
 Herrich-Schaeffer, Nom. Ent., i, p. 69, 1835, *Bythoscopus*.
 Lewis, Trans. Ent. Soc. Lond., i, p. 50, pl. 8, fig. 3, 1835.
 Burmeister, Genera Ins., pl. 10, 1838, *Pediopsis*.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (as type).
 Amyot and Serville, Hémip., p. 586, 1843, *Pediopsis*.
 Walker, List Homop., iii, p. 861, 1851, *Bythoscopus*.
 Flor, Rhyn. Livl., ii, p. 188, 1861, *Pediopsis*.
 Kirschbaum, Cicad. v. Wiesbd., p. 175, 1868, *Pediopsis*.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 458, 1868, *Pediopsis*.
 Scott, Ent. Mo. Mag., x, p. 189, 1874, *Pediopsis*.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 114, *Pediopsis*.
 Melichar, Cicad. Mitt. Eur., p. 142, pl. 8, figs. 15-18, 1896, *Pediopsis*.
 Edwards, Hemip. Homop. Brit. Isds., p. 96, pl. 11, fig. 9, 1896, *Pediopsis*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis*.

a. var. graminea (Fabr.)

- Fabricius, Ent. Syst. Suppl., p. 521, 1798, *Cicada*.
 Fabricius, Syst. Rhyng., p. 77, 1803, *Cicada*.
 Germar, Mag. d. Ent., iv, p. 81, 1821, *Jassus*.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 459, 1868, *Pediopsis*.
 Oshanin, Verz. Palae. Hemip., ii, p. 73, 1906, *Pediopsis*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Pediopsis*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis*.
 Localities: N. Y., Me. (Europe.)

1809. *Macropsis viridis* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 59, 1851, *Pediopsis*.
 Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Pediopsis*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis*.
 Van Duzee, Ent. Am., v, p. 170, 1889, *Pediopsis*.
 Van Duzee, Psyche, v, pp. 238, 388, 1890, *Pediopsis*.
 Provancher, Pet. Faune Ent. Can., iii, p. 294, 1890, *Pediopsis*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 259, 1894, *Pediopsis*.
 Gillette and Baker, Hemip. Colo., p. 73, 1895, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 121, 1898, *Pediopsis*.
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Pediopsis*.
 Van Duzee, Can. Ent., xl, p. 116, 1908, *Pediopsis*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis*.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915, *Pediopsis*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 89, 1915, *Pediopsis*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915, *Pediopsis*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 16, 1916, *Pediopsis*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md.,
N. C., Tenn., Mo., Kans., Ia., Colo.

1810. **Macropsis occidentalis** (Van D.)

Van Duzee, Psyche, v, p. 238, 1889, *Pediopsis*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 121, 1898, *Pediopsis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Localities: Nevada, Calif.

1811. **Macropsis suturalis** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 67, 119, 1898, *Pediopsis*.

Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 92, 1915, *Pediopsis*.

Localities: Me., N. Y., Pa., Ia.

1812. **Macropsis crocea** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 68, 120, 1898, *Pediopsis*.

Locality: Ky.

1813. **Macropsis trivialis** (Ball)

Ball, Can. Ent., xxxiv, p. 304, 1902, *Pediopsis*.

Ball, Ohio Nat., iii, p. 398, 1913, *Pediopsis*.

Locality: Colo.

1814. **Macropsis erythrocephalus** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 120, 1898, *Pediopsis*.

Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Pediopsis*.

Locality: Colo.

1815. **Macropsis basalis** (Van D.)

Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis*.

Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 119, 1898, *Pediopsis*.

Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.

Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis*.

Van Duzee, Can. Ent., xl, p. 116, 1909, *Pediopsis*; xlv, p. 329, 1912.

Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis*.

a. var. **fumipennis** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 73, 1895, *Pediopsis*.

Localities: Quebec, Ont., Me., N. Y., Pa., Ia., Colo.

1816. **Macropsis bicolor** (Osh.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis*.

Locality: Me.

1817. *Macropsis canadensis* (Van D.)

- Van Duzee, Can. Ent., xxii, p. 111, 1890, *Pediopsis* (n.n. for †*flavescens*)
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis*. [Van D.).
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 118, 1898, *Pediopsis*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis*.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915, *Pediopsis*.
 †*flavescens* Van Duzee, Ent. Am., v, p. 173, 1889, *Pediopsis*.
 Localities: Quebec, Ont., Me., N. Y.

1818. *Macropsis bifasciata* (Van D.)

- Van Duzee, Ent. Am., v, p. 173, 1889, *Pediopsis*.
 Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 118, 1898, *Pediopsis*.
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.
 Van Duzee, Can. Ent., xl, p. 116, 1908, *Pediopsis*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915, *Pediopsis*.
 Localities: Quebec, Ont., Me., N. Y., Pa., Ia., Colo.

1819. *Macropsis nigricans* Van D.

- Van Duzee, Check List Hemip., p. 64, 1916 (n.n. for †*trimaculata* Van D.).
 †*trimaculata* Van Duzee, Ent. Am., v, p. 172, 1889, *Pediopsis*.
 Van Duzee, Psyche, v, p. 388, 1890, *Pediopsis*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 260, 1894, *Pediopsis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis*.
 †*bifasciata* Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis*.
 Localities: Ont., N. Y.

1820. *Macropsis ferrugineoides* (Van D.)

- Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 66, 117, pl. 2, fig. 4, 1898,
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 92, 1915, *Pediopsis*. [*Pediopsis*.]
 †*bifasciata* Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis*.
 Localities: Me., Ia., Neb., Colo., Mont.

1821. *Macropsis trimaculata* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Pediopsis*.
 Walker, List. Homop., iv, p. 1162, 1852, *Bythoscopus*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 116, 1898, *Pediopsis*.
 Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis*.
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis*.
 Van Duzee, Can. Ent., xli, p. 383, 1909, *Pediopsis*; xlv, p. 329, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 91, 1915, *Pediopsis*.
 †*insignis* Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis*.
 Van Duzee, Can. Ent., xxii, p. 249, 1890, *Pediopsis*.
 Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis*.
 Localities: Quebec, Ont., Me., N. Y., Pa., Mich., Ia., Kans., Colo.

1822. *Macropsis sordida* (Van D.)

- Van Duzee, Can. Ent., xxvi, p. 89, 1894, *Pediopsis*.
 Gillette and Baker, Hemip. Colo., p. 73, 1895, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 116, 1898, *Pediopsis*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 91, 1915, *Pediopsis*.
 Localities: Me., N. J., Colo.

1823. *Macropsis tristis* (Van D.)

- Van Duzee, Can. Ent., xxii, p. 249, 1890, *Pediopsis*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 66, 115, pl. 2, fig. 3, 1898,
 Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis*. [Pediopsis].
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis*.
 Localities: Pa., Ia., Colo.

Genus *Oncopsis* Burm.Logotype *flavicollis* (Linn.)

- Burmeister, Genera Ins., pl. 10, 1838. [type].
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *flavicollis*
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, p. 30, 1907.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.

Bythoscopus Amyot and Serville, Hémip., p. 584, 1843.

- Kirschbaum, Die Gatt. Idiocerus, p. 4, 1868.
 Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
 Fieber, Kat. Eur., Cicad., p. 8, 1872.
 Fieber, Cicad. d'Eur., i, p. 102, 1875; ii, pl. 9, 1876.
 Berg, Hemip. Arg., p. 276, 1879.
 Mayr, Tabellen, p. 27, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 105.
 Ashmead, Ent. Am., v, p. 126, 1889.
 Van Duzee, Ent. Am., vi, p. 221, 1890 (monograph).
 Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 257, 1894.
 Melichar, Cicad. Mitt. Eur., p. 136, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 87, 1896.

†*Athysanus* Fitch, Homop. N. Y. St. Cab., p. 60, 1851.

‡*Macropsis* Kirkaldy, Entomol., xxxiv, p. 240, 1901.

1824. *Oncopsis variabilis* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus*.
 Walker, List Homop., iii, p. 876, 1851, *Bythoscopus*.
 Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 853, 1858, *Athysanus*.
 Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Athysanus*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis*.
 Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus*.
 Van Duzee, Ent. Am., vi, p. 223, 1890, *Bythoscopus*.
 Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus*.
 Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 257, 1894, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894, *Bythoscopus*.

Slosson, Ent. News, v, p. 265, 1896, *Bythoscopus*.

Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 501, 1905, *Bythoscopus*.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.

Metcalfe, J. L. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Gabietis Fitch, Homop., N. Y. St. Cab., p. 60, 1851, *Athysanus*.

Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.

Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 748, 1857, *Athysanus*.

Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 854, 1858, *Athysanus*.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 551, 1869, *Athysanus*.

Packard, 5th Rept. U. S. Ent. Comm., pp. 512, 854, 1890, *Athysanus*.

?flavus Walker, List Homop., iii, p. 875, 1851, *Bythoscopus*.

†clitellarius Provancher, Nat. Can., iv, p. 377, 1872, *Macropsis*.

‡variegatus Provancher, Pet. Faune Ent. Can., iii, p. 289, 1889, *Bythoscopus*.

a. var. coloradensis (Bak.)

Baker, Psyche, viii, p. 198, 1898, *Bythoscopus*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C.,
Calif., Br. Col.

1825. *Oncopsis sobrius* (Walk.)

Walker, List Homop., iii, p. 874, 1851, *Bythoscopus*.

Van Duzee, Ent. Am., vi, p. 224, 1890, *Bythoscopus*.

Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus*.

Slosson, Ent. News, v, p. 5, 1894, *Bythoscopus*.

Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 502, 1905, *Bythoscopus*.

Van Duzee, Can. Ent., xl, p. 115, 1908, *Bythoscopus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.

Localities: Quebec, Ont., Me., N. H., N. Y.

1826. *Oncopsis cognatus* (Van D.)

Van Duzee, Ent. Am., vi, p. 225, 1890, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.

Slosson, Ent. News, xiii, p. 321, 1902, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Bythoscopus*.

Van Duzee, Can. Ent., xl, p. 116, 1908.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 89, 1915.

Localities: Quebec, Ont., Me., N. H., N. Y., Manitoba.

1827. *Oncopsis truncatus* (Bak.)

Baker, Psyche, viii, p. 198, 1898, *Bythoscopus*.

Locality: Mich.

1828. *Oncopsis fitchi* Van D.

Van Duzee, Check List. Hemip., p. 65, 1916 (n.n. for *fencstratus* Fh.).

||fencstratus Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus*.

- Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.
 Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 853, 1858, *Athysanus*.
 Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis*.
 Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus*.
 Van Duzee, Ent. Am., vi, p. 225, 1890, *Bythoscopus*.
 Provancher, Pet. Faune Ent. Can., iii, p. 289, 1890, *Bythoscopus*.
 Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 258, 1894, *Bythoscopus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.
 Gillette and Baker, Hemip. Colo., p. 72, 1895, *Bythoscopus*.
 Slosson, Ent. News, vii, p. 265, 1896, *Bythoscopus*.
 Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus*.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Bythoscopus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.
 Metcalfe, J. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C.,
 Colo.

1829. *Oncopsis pruni* (Prov.)

- Provancher, Pet. Faune Ent. Can., iii, p. 290, 1890, *Bythoscopus*.
 Van Duzee, Ent. Am., vi, p. 226, 1890, *Bythoscopus*.
 Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus*.
 Slosson, Ent. News, v, p. 5, 1894, *Bythoscopus*.
 Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.
 Gillette and Baker, Hemip. Colo., p. 72, 1895, *Bythoscopus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Bythoscopus*.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Bythoscopus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 87, 1915.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Colo.,
 Sask., Calif., Br. Col.

1830. *Oncopsis minor* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus*.
 Walker, List Homop., iii, p. 876, 1851, *Bythoscopus*.
 Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 583, 1858, *Athysanus*.
 Rathvon in Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus*.
 Van Duzee, Ent. Am., vi, p. 227, 1890, *Bythoscopus*.
 Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus*.
 Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Bythoscopus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.

ocellatus Provancher, Nat. Can., iv, p. 377, 1872, *Macropsis*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md.

1831. **Oncopsis nigrinasi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Athysanus*.

Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.

Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus*.

Van Duzee, Ent. Am., vi, p. 228, 1890, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.

Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus*.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.

Van Duzee, Can. Ent., xlv, pp. 328, 329, 1912.

Osborn, Me. Ag. Exp. Sta., Bul. 238, p. 89, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

flavescens Provancher, Nat. Can., iv, p. 376, 1872, *Pediopsis*.

Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis*.

†*fenestratus* Provancher, Pet. Faune Ent. Can., iii, p. 289, 1890, *Bythoscopus*.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Md., N. C.

1832. **Oncopsis fagi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Athysanus*.

Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Bythoscopus*.

Locality: N. Y.

1833. **Oncopsis distinctus** (Van D.)

Van Duzee, Ent. Am., vi, p. 224, 1890, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 65, 1898, *Bythoscopus*.

Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Bythoscopus*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Bythoscopus*.

Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus*.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915, *Bythoscopus*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 15, 1916, *Bythoscopus*.

Localities: Ont., N. Y., N. J., Pa., Md., N. C., Ohio, Tenn., Ill., Mo.,
Kaus.

Genus **Straganiopsis** Bak.

Orthotype *idioceroides* Bak.

Baker, Invert. Pacif., i, p. 10, 1903.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 31, 1907.

1834. **Straganiopsis idioceroides** (Bak.)

Baker, Psyche, ix, p. 55, 1900, *Macropsis*.

Locality: N. Mex.

Genus **Bythoscopus** Germ.

Logotype *lanio* (Linn.)

Germar, Silb. Rev. Ent., i, p. 180, 1833.

Kirkaldy, Entomol., xxxiv, p. 340, 1901.

- Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, p. 31, 1907.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 190, 1908.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 †Jassus Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.
 Fallén, Hemip. Suec., Cicad., p. 58, 1826 (names *lanio* pseudotype).
Batracomorphus Lewis, Trans. Ent. Soc. Lond., i, p. 51, 1835.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
 Kirkaldy, Entomol., xxxiv, p. 219, 1901 (names *irroratus* type).
 †*Macropsis* Amyot and Serville, Hemip., p. 585, 1843.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 449, 1868.
 Stål, Hemip. Afr., iv, p. 126, 1866.
 Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
 Sahlberg, Cicad., p. 113, 1871.
 Fieber, Cicad. d'Eur., i, p. 101, 1875.
 Mayr, Tabellen, p. 26, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 104.
 Ashmead, Ent. Am., v, p. 126, 1889.
 Van Duzee, Ent. Am., v, p. 165, 1889.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 256, 1894.
 Ball, Psyche, ix, p. 128, 1900.
 Oshanin, Verz. Palae. Hemip., ii, p. 67, 1906.
 Oshanin, Kat. Palae. Hemip., p. 101, 1912.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 9, 1916.
Stragania Stål, Rio Jan. Hemip., ii, p. 49, 1862.
 Fowler, Biol. Centr. Am., Homop., ii, p. 316, 1903.
Pachyopsis Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 466, 1877. (Type
 Ashmead, Ent. Am., v, p. 126, 1889. [*laetus* Uhl.])
 Van Duzee, Ent. Am., v, p. 165, 1889.
Gargaropsis Fowler, Biol. Centr. Am., Homop., ii, p. 167, 1896.

1835. **Bythoscopus laetus** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 466, 1877, *Pachyopsis*.
 Gillette and Baker, Hemip. Colo., p. 71, 1895, *Pachyopsis*.
 Ball, Ohio Nat., iii, p. 397, 1903, *Macropsis*.

a. var. **paetus** Ball.

- Ball, Psyche, ix, p. 130, 1900, *Macropsis*.
 Locality: Colo.

1836. **Bythoscopus apicalis** (O. & B.)

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 64, pl. 2, fig. 1, 1898, *Macropsis*.
 Ball, Psyche, ix, p. 129, 1900, *Macropsis*.
 Gibson, Ohio Jl. Sci., xvi, p. 71, 1915, *Macropsis*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 9, 1916.
alabamensis Baker, Psyche, ix, p. 58, 1900, *Macropsis*.
 Localities: Ala., Ohio, Tenn., Ia., Neb., Kans., Mo.

1837. **Bythoscopus robustus** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Pachyopsis*.
 Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pachyopsis*.
 Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 209, 1909, *Macropsis*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Localities: Fla., Ala., La., Texas, N. Mex., Ariz., Colo., Calif.

1838. *Bythoscopus misellus* (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 85, 1864, *Stragania*.

Ball, Psyche, ix, p. 129, 1900, *Macropsis*.

Baker, Invert. Pacif., i, p. 11, 1903 (copies Stål's description).

Localities: Colo.(?), N. Mex.(?). (Mexico.)

1839. *Bythoscopus rufoscutellatus* (Bak.)

Baker, Psyche, ix, p. 58, 1900, *Macropsis*.

Localities: Colo., Nev.

1840. *Bythoscopus bisignatus* (Ball)

Ball, Can. Ent., xxxiv, p. 303, 1902, *Macropsis*.

Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis*.

Locality: Colo.

1841. *Bythoscopus franciscanus* (Bak.)

Baker, Invert. Pacif., i, p. 12, 1903, *Macropsis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

Locality: Calif.

1842. *Bythoscopus humilis* (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 85, 1864, *Stragania*.

Baker, Invert. Pacif., i, p. 11, 1903, *Macropsis* (copies Stål's description).

Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis*.

Localities: Colo. (Mexico.)

1843. *Bythoscopus ater* (Bak.)

Baker, Psyche, ix, p. 56, 1900, *Macropsis*.

Ball, Psyche, ix, p. 130, 1900, *Macropsis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.

♀ *magnus* Baker, Psyche, ix, p. 57, 1900, *Macropsis*.

Locality: Calif.

1844. *Bythoscopus californicus* (Bak.)

Baker, Psyche, ix, p. 57, 1900, *Macropsis*.

Ball, Psyche, ix, p. 129, 1900, *Macropsis*.

Localities: Colo., Calif.

1845. *Bythoscopus grandis* (Ball)

Ball, Can. Ent., xli, p. 186, 1909, *Macropsis*.

Localities: Colo., Utah, Ariz.

Subfamily CICADELLINAE Van D.

Van Duzee, Check List Hemip., p. 65, 1916.

Tettigonioidae Spinola, Tavola Sinot., pp. 56, 57, 1850.

Sahlberg, Cicad., p. 67, 1871, *Tettigonides*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876, *Tettigonidae*.

Mayr, Tabellen, p. 28, 1884, *Tettigonidae*.

[(Family.)

Osborn, Ent. Am., i, p. 26, 1885, *Tettigonidae*. (Family.)

- Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Tettigonidae*. (Family.)
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887, *Tettigonidae*.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Tettigonidae*.
Tettigoniellidae Melichar, Wien. Ent. Zeit., xxiv, p. 298, 1905. [(Family.)]
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 98, 1915. (Key.)
Tettigoninae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906.

TRIBE *CICADELLINI* Van D.

- Van Duzee, Check List Hemip., p. 65, 1916.
Tettigoides Amyot and Serville, Hémip., p. 569, 1843.
 Walker, List Homop., iii, p. 732, 1851.
 Dohrn, Cat. Hemip., p. 88, 1859, *Tettigonidae*.
 Fieber, Cat. Eur. Cicad., p. 9, 1872, *Tettigoninae*.
 Fieber, Cicad. d'Eur., i, p. 106, 1875, *Tettigonidae*.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 45, 1879.
 Berg, Hemip. Arg., p. 249, 1879, *Tettigoniina*.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Tettigoniina*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 207, 1897, *Tettigoniidae*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 38, 1901, *Tettigoniina*.
 Oshanin, Verz. Palae. Hemip., ii, p. 50, 1906, *Tettigoniina*.
 Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 72, 1906, *Tettigoninae*.
Proconiida Stål, Hemip. Fabr., ii, p. 79, 1869.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 733, 1870, *Proconiina*.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887, *Proconina*.
Tettigoniini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906; iii, [pp. 85, 86, 1907].
Tettigoniellini Jacobi Sitz. Ges. Nat. Freund. for 1905, p. 165.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 200, 1908. [*goniellini*.]
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914, *Tetti-*

Genus *Oncometopia* Stål

Logotype *undata* (Fabr.)

- Stål, Hemip. Fabr., ii, pp. 60, 62, 1869.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887.
 Fowler, Biol. Centr. Am., Homop., ii, p. 227, 1899.
 Ball, Proc. Ia. Acad. Sci., viii, p. 41, 1901.
 †*Proconia* Amyot and Serville, Hémip., p. 571, 1843. [1854.
Tettigonia Groupe I, ser. 3, Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 357,

1846. *Oncometopia undata* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 32, 1794, *Cicada*.
 Fabricius, Ent. Syst., Suppl., p. 516, 1798, *Cicada*.
 Coquebert, Illust. Icon. Ins., i, p. 32, pl. 8, fig. 3, 1799, *Cicada*.
 Fabricius, Syst. Rhyng., p. 62, 1803, *Cicada*.
 Germar, Mag. d. Ent., iv, p. 61, 1821, *Tettigonia*.
 Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia*.
 Blanchard, Hist. des Ins., Hémip., p. 192, 1840, *Cicada*.
 Walker, List Homop., iii, p. 783, 1851, *Proconia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 486, pl. 17, fig. 5, 1854, *Tettigonia*.
 Stål, Hemip. Fabr., ii, p. 62, 1869.
 Riley, Am. Ent., i, p. 19, 1869, *Proconiinae*.
 Uhler, Stand. Nat. Hist., ii, p. 248, 1884.

- Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 15, pl. 2, figs. 10-14, 1887.
 Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889, *Proconia*.
 Harrington, Ottawa Nat., vi, p. 31, 1892.
 Fowler, Biol. Centr. Am., Homop., ii, p. 231, pl. 14, figs. 19, 20, 1899.
 Ball, Proc. Ia. Acad. Sci., viii, p. 41, 1901.
 Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 18, 1916.
orbona Fabricius, Ent. Syst., Suppl., p. 520, 1798, *Cicada*.
 Fabricius, Syst. Rhyng., p. 72, 1803, *Cicada*. [Tettigonia.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 485, pl. 17, fig. 3, 1854.
 Walker, List Homop., Suppl., p. 225, 1858, *Proconia*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 265, 1894.
nigricans Walker, List Homop., iii, p. 783, 1851, *Proconia*.
clarior Walker, List Homop., iii, p. 784, 1851, *Proconia*.
lucerna Walker, List Homop., iii, p. 785, 1851, *Proconia*.
 Walker, List Homop., Suppl., p. 225, 1858, *Proconia*.
marginata Walker, List Homop., iii, p. 785, 1851, *Proconia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 487, 1854, *Tettigonia*.
badia Walker, List Homop., iii, p. 786, 1851, *Proconia*.
 Walker, List Homop., Suppl., p. 225, 1858, *Proconia*.
 Van Duzee, Ent. News, v, p. 157, 1894, *Gypona*? [Proconia.
scutellata Walker, List Homop., iii, p. 786, 1851; Suppl., p. 225, 1858,
tenebrosa Walker, List Homop., iii, p. 787, 1851, *Proconia*.
plagiata Walker, List Homop., iii, p. 788, 1851, *Proconia*.
alpha Fowler, Biol. Centr. Am., Homop., ii, p. 232, pl. 14, fig. 22, 1899.
?obtusa Fabricius, Ball, Proc. Ia. Acad. Sci., viii, p. 43, 1901.
 Fowler, Biol. Centr. Am., Homop., ii, p. 228, 1899.
 Osborn, Ohio Nat., ix, p. 460, 1909.

a. var. *garryae* Ckl.

- Cockerell, Ann. Mag. Nat. Hist., ser. 7, xii, p. 453, 1903.
 Localities: Quebec, Mass., N. J., Pa., N. C., Ga., Fla., Texas, N.
 Mex. (Mexico.)

1847. *Oncometopia lateralis* (Fabr.)

- Fabricius, Ent. Syst., Suppl., p. 524, 1798, *Cercopis*.
 Coquebert, Illust. Leon. Ins., i, p. 35, pl. 9, fig. 3, 1799, *Cercopis*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 241, pl. 15, fig. 18, 1899.
 Ball, Proc. Ia. Acad. Sci., viii, p. 44, 1901.
 Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 61, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 99, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.

- DeLong, Tenn. St. Bd. Ent., Eal. 17, p. 18, 1916. [*alis* Fabr.
marginella Fabricius, Syst. Rhynch., p. 96, 1803, *Cercopis* (n.n. for *later-*
 Kirby in Richardson, Fauna Bor. Am., iv, p. 285, 1837, *Cercopis*.
costalis Fabricius, Syst. Rhynch., errata, 1803 (n.n. for *marginella* Fabr.).
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 359, pl. 12, fig. 8, 1854, *Tetti-*
 Walker, List Homop., Suppl., p. 224, 1858, *Proconia*. [*gonia*.
 Stål, Hemip. Fabr., ii, p. 118, 1869.
 Uhler, Wheeler's Surv. 100th Merid., v, p. 842, 1875, *Proconia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876; iii, p. 459, 1877;
 [iv, p. 510, 1878, *Proconia*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Proconia*.
 Uhler, Stand. Nat. Hist., ii, p. 249, 1884, *Proconia*.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 17, 1887.
 Van Duzee, Can. Ent., xxi, p. 9, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889, *Proconia*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Proconia*.
 Harrington, Ottawa Nat., vi, p. 31, 1892.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Proconia*.
 Slosson, Ent. News, v, p. 5, 1894.
 Van Duzee, Ent. News, v, p. 156, 1894.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 265, 1894.
 Gillette and Baker, Hemip. Colo., p. 81, 1895.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907.
 Van Duzee, Can. Ent., xl, p. 157, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
striata Walker, List Homop., iii, p. 775, 1851, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, i, p. 682, 1853, *Tettigonia*.
lugens Walker, List Homop., iii, p. 775, 1851, *Tettigonia*.
pyrrhotelus Walker, List Homop., iii, p. 775, 1851, *Tettigonia*.
 Localities: Quebec, Ont., Me., N. H., N. Y., N. J., N. C., Fla., Kans.,
 Colo., Utah, N. Mex., Ariz., Calif., Br. Col.

a. var. limbata (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1825; Compl. Writ., ii, p. 258, *Tetti-*
 Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 821, 1855, *Tettigonia*. [*gonia*.
 Van Duzee, Psyche, v, p. 389, 1890.
 Ball, Proc. Ia. Acad. Sci., viii, p. 45, 1901.
septentrionalis Walker, List Homop., Suppl., p. 193, 1858, *Tettigonia*.
 Localities: Mich., Mo., Dak., Ia., Colo., Calif., Br. Am.

Genus **Homalodisca** Stål

Logotype *triquetra* (Fabr.)

- Stål, Hemip. Fabr., ii, pp. 60, 63, 1869.
 Ball, Proc. Ia. Acad. Sci., viii, p. 46, 1901.
 Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 80, 1908 (cites *triquetra* as type).

1848. *Homalodisca triquetra* (Fabr.)

- Fabricius, Syst. Rhyng., p. 63, 1803, *Cicada*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 240, 1855, *Tettigonia*.
 Walker, List Homop., Suppl., p. 243, 1858, *Ciccus*.
 Stål, Hemip. Fabr., ii, p. 64, 1869.
 Weed, Can. Ent., xxiv, p. 278, 1892.
 Ball, Proc. Ia. Acad. Sci., viii, p. 47, pl. 2, fig. 1, 1901.
 Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 80, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 19, 1916.
vitripennis Germar, Mag. d. Ent., iv, p. 61, 1821, *Tettigonia*.
 Burmeister, Handb. d. Ent., ii, p. 120, 1835, *Tettigonia*.
 Walker, List Homop., iii, p. 799, 1851, *Ciccus*. [*Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 493, pl. 17, fig. 10, 1854,
 Walker, List Homop., Suppl., p. 225, 1858, *Proconia*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 221, pl. 14, fig. 1, 1899, *Phera*.
coagulata Say, Ins. of La., p. 13, 1832; Compl. Writ., i, p. 307, *Tettigonia*.
 Stål, Stet. Ent. Zeit., xxv, p. 78, 1864, *Phera*.
 Stål, Hemip. Fabr., ii, p. 64, 1869.
 Riley and Howard, Insect Life, v, pp. 150-154, 1893.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915. [11, 1854, *Tettigonia*.
ichthycephala Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 494, pl. 17, fig.
admittens Walker, List Homop., Suppl., p. 227, 1858, *Proconia*.
aurigena Walker, List Homop., Suppl., p. 228, 1858, *Proconia*.
excludens Walker, Ins. Samml., Homop., p. 98, 1858, *Proconia*.
 Localities: S. C., Ga., Fla., Ala., Miss., La., Texas, Mo.

1849. *Homalodisca liturata* Ball

- Ball, Proc. Ia. Acad. Sci., viii, p. 48, pl. 2, fig. 2, 1901.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
 Localities: Ariz., Calif.

1850. *Homalodisca insoleta* (Walk.)

- Walker, List Homop., Suppl., p. 227, 1858, *Proconia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 49, pl. 2, fig. 3, 1901.
 Localities: Texas, Ariz.

Genus *Aulacizes* A. & S.Haplotype *quadripunctata* (Germ.)

- Amyot and Serville, Hémip., p. 571, 1843.
 Stål, Hemip. Fabr., ii, p. 61, 1869.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 18, 1887.
 Fowler, Biol. Centr. Am., Homop., ii, p. 214, 1898.
 Ball, Proc. Ia. Acad. Sci., viii, p. 39, 1901.
 Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 74, 1908 (cites *4-punctata* as type).
Tettigonia Groupe II, Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 731, 1854.

1851. *Aulacizes irrorata* (Fabr.)

- Fabricius, Ent. Syst., iv, p. 33, 1794, *Cicada*.
 Coquebert, Illust. Icon. Ins., i, p. 32, pl. 8, fig. 4, 1799, *Cicada*.

- Latreille in Cuvier, Règne Animal, iii, p. 406, 1817.
 Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia*.
 Blanchard, Hist. des Ins., Hémip., p. 192, 1840, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 59, pl. 6, fig. 14, 1855, *Tettigonia*.
 Walker, List Homop., Suppl., p. 236, 1858.
 Stål, Hemip. Fabr., ii, p. 64, 1869.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 19, pl. 2, figs. 15-18, 1887.
 Ball, Proc. Ia. Acad. Sci., viii, p. 40, 1901.
 Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, 1916.
 nigripennis Fabricius, Ent. Syst., iv, p. 32, 1794, *Cicada*.
 Fabricius, Syst. Rhyng., p. 69, 1803, *Cicada*.
 Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia*.
 Walker, List Homop., iii, p. 783, 1851, *Proconia*?
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 491, 1854, *Tettigonia*.
 rufiventris Walker, List Homop., iii, p. 796, 1851; Suppl., p. 236, 1858.
 Localities: N. Y., N. J., Pa., Md., N. C., S. C., Fla., Ala., Ohio,
 Ky., Tenn., Ill., Mo., Texas. (Mexico.)

1852. *Aulacizes pollinosa* Fowl.

- Fowler, Biol. Centr. Am., Homop., ii, p. 218, pl. 13, fig. 18, 1899.
 Ball, Proc. Ia. Acad. Sci., viii, p. 40, 1901.
 ?*guttata* Uhler, Stand. Nat. Hist., ii, p. 248, 1884.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
 Localities: Fla.(?). (Mexico.)

Genus *Cicadella* Latr.

Orthotype *viridis* (Linn.)

- Latreille in Cuvier, Règne Animal, iii, p. 406, 1817 (n.n. for *Cicada* Fabr.).
 Latreille in Cuvier, Règne Animal, edn. 2, v, p. 223, 1829.
 Gray in Griffith's Animal Kingd., xv, p. 226, 1832.
 Percheron in Guérin, Dicty. Hist. Nat., p. 176, 1836.
 Latreille in Cuvier Animal Kingd., Lond. edn., iv, p. 176, 1836.
 Kirkaldy, Can. Ent., xxxix, p. 249, 1907; xlii, p. 65, 1910.
 Van Duzee, Check List Hemip., p. 66, 1916.
 ♂*Tettigonia* Geoffroy, Hist. Abreg. des Ins., i, p. 429, 1762.
 Foureroy, Ent. Paris., p. 193, 1785.
 Tettigonia Reaumur, Mémoires, v, p. 150, 1740 (pre-linnean).
 Olivier, Encyc. Méth., iv, p. 49, 1789.
 Latreille, Hist. Nat. Crust. Ins., iii, p. 261, 1801; xii, p. 319, 1804.
 Germar, Mag. d. Ent., iv, pp. 38, 57, 1821.
 Le Peletier and Serville, Encyc. Méth., x, p. 600, 1825.
 Germar, Silb. Rev. Ent., i, p. 180, 1833.
 Burmeister, Handb. d. Ent., ii, p. 117, 1835.

- Blanchard, Hist. des Ins., Hémip., p. 189, 1840.
 Amyot and Serville, Hémip., p. 569, 1843.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, i, p. 323, 1853 (Groupe I, ser. 2).
 Stål, Rio Jan. Hemip., ii, p. 38, 1862.
 Stål, Hemip. Afr., iv, pp. 100, 115, 1866.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
 Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868.
 Stål, Hemip. Fabr., ii, p. 61, 1869.
 Sahlberg, Cicad., p. 104, 1879.
 Fieber, Cicad. d'Eur., i, p. 107, 1875.
 Berg, Hemip. Arg., p. 250, 1879.
 Mayr, Tabellen, p. 29, 1884.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 20, 1887.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 15.
 Provancher, Pet. Faune Ent. Can., iii, p. 262, 1889.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 271, 1894.
 Fowler, Biol. Centr. Am., Homop., ii, p. 235, 1899.
 Ball, Proc. Ia. Acad. Sci., viii, p. 49, 1901.
 †*Cicada* Fabricius, Syst. Ent., p. 682, 1775.
 Fabricius, Ent. Syst., iv, p. 27, 1794.
 Fabricius, Syst. Rhyng., p. 61, 1803.
 Leach, Brewster's Edinbg. Enycc., ix, p. 125, 1830.
 Zetterstedt, Fauna Lapp., p. 517, 1828.
Amblycephalus Curtis, Brit. Ent., i, p. 193, 1833.
Tettigonia Kirkaldy, Entomol., xxxiii, p. 238, 1900; xxxvii, p. 256, 1904.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906.
 Kirkaldy, Can. Ent., xxxix, p. 249, 1907; xlii, p. 63, 1910.
Tettigoniella Jacobi, Zool. Jahrb., xix, p. 778, 1903.
 Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 516, 1908.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 201, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909; x, p. 510, 1912.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 19, 1916.

1853. *Cicadella viridis* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 417, No. 5, 1862, *Cicada*.
 Scopoli, Ent. Carn., p. 115, 1763, *Cicada*.
 Fabricius, Syst. Ent., p. 685, 1775, *Cicada*.
 Goeze, Ent. Beytr., ii, p. 142, 1778, *Cicada*.
 Fabricius, Spec. Ins., ii, p. 326, 1781, *Cicada*.
 Foureroy, Ent. Paris., i, p. 185, 1785, *Cicada*.
 Fabricius, Mant. Ins., ii, p. 271, 1787, *Cicada*.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2114, 1788, *Cicada*.
 Panzer, Fauna Germ., iii, pt. 32, pl. 9, 1796, *Cicada*.
 Fabricius, Syst. Rhyng., p. 75, 1803, *Cicada*.
 Latreille, Genera Crust. Ins., iii, p. 161, 1807, *Tettigonia*.
 Leach in Brewster's Edinbg. Enycc., ix, p. 125, 1815, *Cicada*.
 Germar, Mag. d. Ent., iv, p. 72, 1821, *Cicada*.
 Fallén, Hemip., Succ., Cicad., p. 28, 1826, *Cicada*.
 Burmeister, Handb. d. Ent., ii, p. 118, 1835, *Tettigonia*.
 Curtis, Brit. Ent., xii, pl. 572, 1835, *Amblycephalus*.
 Walker, List Homop., iii, p. 768, 1851, *Tettigonia*.

- Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 17, pl. 2, fig. 3, 1854, *Tettigonia*.
 Flor, Rhyn. Livl., ii, p. 145, 1861, *Tettigonia*.
 Kirschbaum, Cicad. v. Wiesbd., p. 72, 1868, *Tettigonia*.
 Sahlberg, Cicad., p. 105, 1871, *Tettigonia*.
 Provancher, Pet. Faune Ent. Can., iii, p. 263, 1889, *Tettigonia*.
 Melichar, Cicad. Mitt. Eur., p. 177, 1896, *Tettigonia*.
 Edwards, Hemip. Homop. Brit. Isds., p. 115, pl. 14, figs. 1, 12, 1896, *Tettigonia*.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.

Localities: Quebec. (Europe.)

1854. *Cicadella hieroglyphica* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 313, 1831; Compl. Writ., ii, p. 387, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 805, 1855, *Tettigonia*. [gonia.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 460, 1877, *Tettigonia*.
 Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Tettigonia*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878, *Tettigonia*.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 26, 1887, *Tettigonia*.
 Gillette and Baker, Hemip. Colo., p. 81, 1895, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 51, 1901, *Tettigonia*.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903, *Tettigonia*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Tettigonia*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914, *Tettigoniella*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella*.

a. var. *dolabrata* (Ball)

- Ball, Proc. Ia. Acad. Sci., viii, p. 52, pl. 3, fig. 2, 1901, *Tettigonia*.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella*.

b. var. *uhleri* (Ball)

- Ball, Proc. Ia. Acad. Sci., viii, p. 52, pl. 3, fig. 3, 1901, *Tettigonia*.
 Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Tettigoniella*.

c. var. *confluens* (Uhler)

- Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 285, 1862, *Proconia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 53, pl. 3, fig. 4, 1901, *Tettigonia*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Tettigoniella*.

Localities: Tenn., Ill., Mo., Ia., Neb., Kans., Wyo., Idaho, Utah,
 Colo., N. Mex., Texas, Ariz., Calif., Ore., Wash., Vanc. Isl.

1855. *Cicadella gothica* (Sign.)

- Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 345, pl. 11, fig. 6, 1854, *Tettigonia*.
 Walker, List Homop., Suppl., p. 193, 1858, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 54, pl. 4, fig. 1, 1901, *Tettigonia*.
 Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Tettigonia*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Tettigonia*.
 Van Duzee, Can. Ent., xl, p. 157, 1908, *Tettigonia*.
 Van Duzee, Can. Ent., xli, p. 383, 1909, *Tettigoniella*.
 Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Tettigoniella*.
 Van Duzee, Can. Ent., xlv, p. 327, 1912, *Tettigoniella*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914, *Tettigoniella*.

- Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella*.
 Osborn, Me. Agr. Exp. Sta., Bul., 238, p. 100, 1915, *Tettigoniella*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Tettigoniella*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 21, 1916, *Tettigoniella*. [gonia.
†hicroglyphica Harris, Hitchcock's Geol. Mass., edn. 2, p. 580, 1835, *Tetti-*
Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889, *Diedrocephala*.
 Harrington, Ottawa Nat., vi, p. 32, 1892, *Tettigonia*.
 Harrington, Can. Ent., xxvi, p. 16, 1894, *Tettigonia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Tettigonia*. [gonia.
||similis Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 25, 1887, *Tetti-*
 Van Duzee, Ent. News, v, p. 156, 1894, *Tettigonia*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 231, 1897, *Tettigonia*.
 Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Tenn., Kans.,
 Mo.

1856. *Cicadella circellata* (Bak.)

- Baker, Psyche, viii, p. 285, 1898, *Tettigonia*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914, *Tettigoniella*.
 Essig, Inj. Benef. Ins. Calif., edn. 2, p. 66, 1915, *Tettigoniella*.
†utropunctata Ball, Proc. Ia. Acad. Sci., viii, p. 55, pl. 4, fig. 2, 1901, *Tetti-*
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Tettigonia*. [gonia.
 Localities: Ariz., Calif.

1857. *Cicadella dohrnii* (Sign.)

- Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 792, pl. 24, fig. 13, 1855, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 56, pl. 4, fig. 3, 1901, *Tettigonia*.
aurora Baker, Psyche, viii, p. 286, 1898, *Tettigonia*. [Tettigonia.
delicata Fowler, Biol. Centr. Am., Homop., ii, p. 269, pl. 18, fig. 5, 1900,
 Localities: Ariz. (Mexico.)

1858. *Cicadella occatoria* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 311, 1831; Compl. Writ., ii, p. 385,
 Walker, List Homop., iv, p. 1157, 1852, *Tettigonia*. [Tettigonia.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 353, pl. 12, fig. 2, 1854, *Tettigonia*.
 Stål, Stet. Ent. Zeit., xxv, p. 75, 1864, *Tettigonia*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 279, pl. 18, fig. 29, 1900, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 57, pl. 4, fig. 4, 1901, *Tettigonia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909, *Tettigoniella*.
 Osborn, Ohio Nat., ix, p. 462, 1909, *Tettigoniella*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914, *Tettigoniella*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 21, 1916, *Tettigoniella*. [Tettigonia.
compta Fowler, Biol. Centr. Am., Homop., ii, p. 271, pl. 18, fig. 11, 1900,
 Localities: N. C., Fla., Miss., Tenn., Mo., Texas. (Mexico.)

Genus *Kolla* Dist.Orthotype *insignis* Dist.

- Distant, Fauna Brit. Ind., Rhyn., iv, p. 223, 1908.
 Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 529, 1908.

1859. *Kolla bifida* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 313, 1831; Compl. Writ., ii, p. 387,
 Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Tettigonia*. [Tettigonia.

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 11, pl. 1, fig. 11, 1854, *Tettigonia*.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 27, 1887, *Tettigonia*.

Provancher, Pet. Faune Ent. Can., iii, p. 338, 1890, *Helochara*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Tettigonia*.

Van Duzee, Ent. News, v, p. 156, 1894, *Tettigonia*.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 175, 1897, *Tettigonia*.

Ball, Proc. Ia. Acad. Sci., viii, p. 58, pl. 5, fig. 1, 1901, *Tettigonia*.

Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia*.

Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905, *Tettigonia*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia*.

Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 530, 1908, *Tettigonia*.

Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.

Osborn, U. S. Dept. Agr., Ent. Bul. 108, p. 63, 1912, *Tettigonia*.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 99, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 22, 1916.

tenella Walker, List Homop., iii, p. 770, 1851, *Tettigonia*.

Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Miss., Mo., Tenn., Neb., Kans

a. var. fasciata (Walk.)

Walker, List Homop., iii, p. 780, 1851, *Tettigonia*. [1900, *Tettigonia*.

fuscolineella Fowler, Biol. Centr. Am., Homop., ii, p. 290, pl. 19, fig. 25,

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907, *Tettigonia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.

Osborn, Ohio Nat., ix, p. 461, 1909, *Tettigoniella*.

Localities: Fla. (West Indies, Mexico.)

1860. *Kolla geometrica* (Sign.)

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 12, pl. 1, fig. 12, 1854, *Tettigonia*.

Ball, Proc. Ia. Acad. Sci., viii, p. 59, pl. 5, fig. 2, 1901, *Tettigonia*.

Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 530, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.

Osborn, Ohio Nat., ix, p. 461, 1909, *Tettigoniella*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 23, 1916. [1900, *Tettigonia*.

psittacella Fowler, Biol. Centr. Am., Homop., ii, p. 290, pl. 19, fig. 26,

Localities: D. C., Fla., Ohio, Ky., Tenn., Ill., Mo., Ark., La. (Neotropical.)

1861. *Kolla hartii* (Ball)

Ball, Proc. Ia. Acad. Sci., viii, p. 61, pl. 5, fig. 4, 1901, *Tettigonia*.

Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella*.

Localities: Pa., Fla., Miss., Ohio, Ill., Tenn., Mo., Texas, N. Mex.

1862. *Kolla similis* (Walk.)

Walker, List Homop., iii, p. 769, 1851, *Tettigonia*.

Van Duzee, Ent. News, v, p. 155, 1894, *Tettigonia*.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907, *Tettigonia*.
 Osborn, Ohio Nat., ix, p. 462, 1909, *Tettigoniella*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 †*herbida* Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 18, pl. 2, fig. 4, 1854,
 Stål, Rio Jan. Hemip., ii, p. 42, 1862, *Tettigonia*. [Tettigonia].
 Uhler, Proc. Zool. Soc. Lond. for 1895, p. 77, *Tettigonia*.
 Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 529, 1908; ii, p. 62, 1908.
 †*communis* Walker, List Homop., Suppl., p. 235, 1858, *Helochara*.
prolixa Fowler, Biol. Centr. Am., Homop., ii, p. 275, pl. 18, fig. 18, 1900,
 Localities: Fla. (West Indies, Mexico.) [Tettigonia].

Genus **Helochara** Fitch

Haplotype *communis* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 56, 1851.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 730, 1854.
 Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889.
 Ball, Proc. Ia. Acad. Sci., viii, p. 62, 1901.

1863. **Helochara communis** Fitch

- Fitch, Homop. N. Y. St. Cab., p. 56, 1851.
 Walker, List Homop., iv, p. 1156, 1852, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 730, pl. 21, fig. 17, 1854.
 Walker, List Homop., Suppl., p. 235, 1858.
 Packard, Guide to Study of Ins., p. 532, 1869.
 Packard, Am. Nat., ii, p. 53, 1876.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 460, 1877.
 Van Duzee, Can. Ent., xxi, p. 9, 1899.
 Provancher, Pet. Faune Ent. Can., iii, p. 268, 1889.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
 Slosson, Ent. News, v, p. 5, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
 Van Duzee, Ent. News, v, p. 155, 1894.
 Gillette and Baker, Hemip. Colo., p. 82, 1895.
 Ball, Proc. Ia. Acad. Sci., viii, p. 62, pl. 6, fig. 1, 1901.
 Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 62, 1908 (excl. synon.).
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 60, fig. 5, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 103, 1915.
 De Long, Tenn. St. Bd. Ent., Bul. 17, p. 24, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

herbida Walker, List Homop., iii, p. 769, 1851, *Tettigonia*.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., N. C., Ga.,
Tenn., Texas, Colo., N. Mex., Ariz., Calif.

Genus **Graphocephala** Van D.

Orthotype *coccinea* (Forst.)

Van Duzee, Check List Hemip., p. 66, 1916.

†*Diedrocephala* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 22, 1877

Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889. [(as subgenus).]

Ball, Proc. Ia. Acad. Sci., viii, p. 63, 1901.

1864. *Graphocephala coccinea* (Forst.)

Forster, Nov. Spec. Ins., p. 69, 1771, *Cicada*.

Harris in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia*.

Rathvon in Mombert's Hist. Lane. Co., Pa., p. 581, 1869, *Tettigonia*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876, *Diedrocephala*.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 23, 1887, *Diedrocephala*.

Van Duzee, Can. Ent., xxi, p. 9, 1889, *Diedrocephala*.

Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889, *Diedrocephala*.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 28, 1890, *Diedrocephala*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Diedrocephala*.

Harrington, Ottawa Nat., vi, p. 32, 1892, *Diedrocephala*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala*.

Van Duzee, Ent. News, v, p. 155, 1894, *Diedrocephala*.

Slosson, Ent. News, vi, p. 321, 1895, *Diedrocephala*.

Ball, Proc. Ia. Acad. Sci., iv, p. 177, 1897, *Diedrocephala*.

Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Diedrocephala*.

Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Diedrocephala*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Diedrocephala*.

Van Duzee, Can. Ent., xxxviii, p. 409, 1906, *Diedrocephala*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Diedrocephala*.

Van Duzee, Can. Ent., xl, p. 157, 1908, *Diedrocephala*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909, *Diedrocephala*.

Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Diedrocephala*.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 60, 1912, *Diedrocephala*.

Van Duzee, Can. Ent., xlv, p. 327, 1912, *Diedrocephala*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Diedrocephala*.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Diedrocephala*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Diedrocephala*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 101, 1915, *Diedrocephala*.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 25, 1916, *Diedrocephala*.

Gibson, Can. Ent., xlviii, p. 178, 1916, *Diedrocephala*. [ii, p. 386, *Tettigonia*.

quadrivittata Say, Jl. Acad. Nat. Sci. Phila., vi, p. 312, 1831; Compl. Writ.,

Harris in Hitchcock's Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia*.

Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Proconia*.

Walker, List Homop., iv, p. 1155, 1852, *Tettigonia*.

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 348, pl. 11, fig. 11, 1854,

[*Tettigonia* (*Diedrocephala*).

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856, *Aulacizes*.

Rathvon in Mombert, Hist. Lane. Co., Pa., p. 581, 1869, *Tettigonia*.

Packard, Guide to Study of Ins., p. 532, 1869, *Proconia*.

Glover, U. S. Dept. Agr., Rept. for 1876, p. 33, *Dicrocephala*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Dicrocephala* (var.).

Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 20, 1900, *Tettigonia picta* Walker, List Homop., iii, p. 758, 1851, *Tettigonia*. [gonia.]

fidonea Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 18, 1900, [Tettigonia.]

a. var. **teliformis** (Walk.)

Walker, List Homop., iii, p. 764, 1851, *Tettigonia*.

Van Duzee, Ent. News, v, p. 155, 1894, *Tettigonia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909, *Dicrocephala*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C., Fla., Ohio, Tenn., Mo., Kans., Okl., Texas.

1865. **Graphocephala versuta** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 311, 1831; Compl. Writ., ii, p. 386, *Tettigonia*. [gonia.]

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 348, pl. 11, fig. 10, 1854, *Tettigonia*.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 22, 1887, *Dicrocephala*.

Van Duzee, Psyche, v, p. 390, 1890, *Dicrocephala*.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 27, 1890, *Dicrocephala*.

Weed, Can. Ent., xxiv, p. 278, 1892, *Dicrocephala*.

Ball, Proc. Ia. Acad. Sci., viii, p. 64, pl. 6, fig. 3, 1901, *Dicrocephala*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909, *Dicrocephala*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Dicrocephala*.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Dicrocephala*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915, *Dicrocephala*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 25, 1916, *Dicrocephala*.

Gibson, Can. Ent., xlviii, p. 177, 1916, *Dicrocephala*. [Tettigonia.]

redacta Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 21, 1900,

Localities: Md., D. C., Va., N. C., Ga., Fla., Ala., Miss., La., Ohio, Ill., Ky., Tenn., Mo., Texas.

a. var. **lineiceps** Spin.

Spinola in Gay, Hist. de Chili, Zool., vii, p. 283, 1852, *Tettigonia*.

Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 786, 1855, *Tettigonia*.

Walker, List Homop., Suppl., p. 354, 1858, *Tettigonia*.

Ball, Proc. Ia. Acad. Sci., viii, p. 65, pl. 6, fig. 4, 1901, *Dicrocephala*.

Osborn, Ohio Nat., ix, p. 463, 1909, *Dicrocephala*.

Localities: Texas. (Neotropical.)

1866. **Graphocephala cythura** (Bak.)

Baker, Psyche, viii, p. 268, 1898, *Tettigonia*.

Ball, Proc. Ia. Acad. Sci., viii, p. 66, pl. 6, fig. 5, 1901, *Tettigonia* (as var.).

Localities: Ariz., Calif.

Genus **Draeculacephala** Ball

Orthotype *mollipes* (Say)

Ball, Proc. Ia. Acad. Sci., viii, p. 66, 1901.

Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 60, 1908.

Van Duzee, Ent. News, xxvi, p. 176, 1915. (Key.)

†*Dicrocephala* Uhler, Stand. Nat. Hist., ii, p. 249, 1884.

1867. **Draeculacephala floridana** Ball

Ball, Proc. Ia. Acad. Sci., viii, p. 72, pl. 6, fig. 6, 1901.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Van Duzee, Ent. News, xxvi, p. 177, 1915.

Localities: Ga., Fla.

1868. *Draeculacephala 7-guttata* (Walk.)

Walker, List Homop., iii, p. 773, 1851, 1851, *Tettigonia*.

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 727, pl. 21, fig. 15, 1854, *Dicro-*

Walker, List Homop., Suppl., p. 223, 1858, *Dicrocephala*. [cephala.

Van Duzee, Ent. News, v, p. 156, 1894, *Dicrocephala*.

Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.

Van Duzee, Ent. News, xxvi, p. 177, 1915.

Localities: N. C., Ga., Fla., Miss.

1869. *Draeculacephala balli* Van D.

Van Duzee, Ent. News, xxvi, p. 177, 1915. [of *mollipes*).

†7-guttata Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 2, 1901 (as var.

Localities: Ga., Fla., Miss.

1870. *Draeculacephala acuta* (Walk.)

Walker, List Homop., iii, p. 773, 1851, *Tettigonia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Van Duzee, Ent. News, xxvi, p. 177, 1915.

Locality: Fla.

1871. *Draeculacephala bradleyi* Van D.

Van Duzee, Ent. News, xxvi, pp. 178, 180, 1915.

Locality: Ga.

1872. *Draeculacephala producta* (Walk.)

Walker, List Homop., iii, p. 772, 1851, *Tettigonia*.

Locality: Fla.

1873. *Draeculacephala angulifera* (Walk.)

Walker, List Homop., iii, p. 771, 1851, *Tettigonia*.

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 727, pl. 21, fig. 14, 1854, *Dicro-*

Van Duzee, Ent. News, v, p. 156, 1894, *Dicrocephala*. [cephala.

Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 4, 1901.

Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.

Gibson and Cogau, Ohio Jl. Sci., xvi, p. 73, 1915.

Van Duzee, Ent. News, xxvi, p. 178, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 102, 1915; Bul. 248, p. 78, 1916.

Dicrocephala sp. Southwick, Science, xix, p. 318, 1892.

Localities: N. FndL., Quebec, Ont., Me., N. Y., Pa., Ohio, Ia., Kans., Colo., Utah, Wash., Br. Col.

1874. *Draeculacephala mollipes* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 312, 1831; Compl. Writ., ii, p. 386,

[*Tettigonia*.

Harris in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia* (*mollipes*).

Fitch, Homop. N. Y. St. Cab., p. 56, 1851, *Aulacizes*.

- Walker, List Homop., iv, p. 1156, 1852, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 726, pl. 21, figs. 12, 13, 1854, *Diedro-*
 Walker, List Homop., Suppl., p. 233, 1858, *Diedrocephala*. [cephala.
 Stål, Stet. Ent. Zeit., xxv, p. 77, 1864, *Tettigonia*.
 Packard, Guide to Study of Ins., p. 532, 1869, *Aulacizes*.
 Glover, U. S. Dept. Agr., Rept. for 1876, p. 32, *Aulacizes*.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 459, 1877, *Diedro-*
 Uhler, Stand. Nat. Hist., ii, p. 249, 1884, *Diedrocephala*. [cephala.
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 24, 1887, *Tettigonia*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889, *Diedrocephala*.
 Van Duzee, Psyche, v, p. 390, 1890, *Diedrocephala*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 26, 1890, *Diedrocephala*.
 Osborn, Rept. Ia. St. Agr. Soc. for 1892, p. 687, *Diedrocephala*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Diedrocephala*.
 Harrington, Ottawa Nat., vi, p. 32, 1892, *Diedrocephala*.
 Weed, Can. Ent., xxv, p. 278, 1892, *Diedrocephala*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 46, 1893, *Diedrocephala*.
 Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Diedrocephala*.
 Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala*.
 Fowler, Biol. Centr. Am., Homop., ii, p. 273, pl. 18, fig. 15, 1900, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 67, pl. 7, fig. 1, 1901.
 Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.
 Van Duzee, Can. Ent., xl, p. 157, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
 Osborn, Ohio Nat., ix, p. 463, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 56, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Swezey, Proc. Haw. Ent. Soc., iii, pp. 4, 9, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 103, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.
 Van Duzee, Ent. News, xxvi, p. 178, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916.
 Gibson, Can. Ent., xlviii, p. 177, 1916.
zinnata Walker, List Homop., iii, p. 770, 1851, *Tettigonia*.
 Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala*.
antica Walker, List Homop., iii, p. 771, 1851, *Tettigonia*.
 Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala*.
viridis Provancher, Nat. Can., iv, p. 352, 1872, *Acopsis*.
 †*viridis* Provancher, Pet. Faune Ent. Can., iii, p. 268, 1889, *Acopsis*.
 Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., N. C., Fla.,
 Ohio, Tenn., Mo., Kans., Colo., Ariz., N. Mex., Calif., Br. Col.
 (Hawaiian Isds.)

1875. *Draculacephala minor* (Walk.)

- Walker, List Homop., iii, p. 772, 1851, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 3, 1901.
 Osborn, Ohio Nat., ix, p. 463, 1909.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Van Duzee, Ent. News, xxvi, p. 178, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916.
 †*producta* Van Duzee, Ent. News, v, p. 156, 1894, *Dicrocephala*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Dicrocephala*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 279, 1894, *Dicrocephala*.
 Localities: Fla., Colo., Calif., Wash.

1876. *Draeculacephala inscripta* Van D.

- Van Duzee, Ent. News, xxvi, pp. 178, 180, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 26, 1916.
 Localities: Ga., Tenn.

1877. *Draeculacephala manitobiana* Ball

- Ball, Proc. Ia. Acad. Sci., viii, p. 70, pl. 7, fig. 5, 1901.
 Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
 Van Duzee, Ent. News, xxvi, p. 178, 1915.
 Localities: Ont., Manitoba, Colo.

1878. *Draeculacephala crassicornis* Van D.

- Van Duzee, Ent. News, xxvi, pp. 178, 181, 1915.
 Localities: Calif., Oreg., Wash.

1879. *Draeculacephala noveboracensis*

- Fitch, Homop. N. Y. St. Cab., p. 56, 1851, *Aulacizis*.
 Walker, List Homop., iv, p. 1158, 1852, *Tettigonia*.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 19, pl. 2, fig. 5, 1854, *Dicrocephala*.
 Walker, List Homop., Suppl., p. 192, 1858, *Tettigonia*. [cephala.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 459, 1877, *Dicro-*
 Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 24, 1887, *Tettigonia*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889, *Dicrocephala*.
 Van Duzee, Psyche, v, p. 390, 1890, *Dicrocephala*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 27, 1890, *Dicrocephala*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Dicrocephala*.
 Southwick, Science, xix, p. 318, 1892, *Dicrocephala*.
 Harrington, Ottawa Nat., vi, p. 32, 1892, *Dicrocephala*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Dicrocephala*.
 Van Duzee, Ent. News, v, p. 155, 1894, *Dicrocephala*.
 Gillette and Baker, Hemip. Colo., p. 82, 1895, *Dicrocephala*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 177, 1897, *Dicrocephala*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 71, pl. 7, fig. 6, 1901.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 409, 1906; xl, p. 157, 1908.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 59, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 101, 1915.

Van Duzee, Ent. News, xxvi, p. 179, 1915.

prasina Walker, List Homop., iii, p. 768, 1851, *Tettigonia*.

†*mollipes* Provaucher, Pet. Faune Ent. Can., iii, p. 266, 1889, *Dicrocephala*.

Localities: Quebec, Ont., Me., Vt., Mass., N. H., N. Y., Pa., Md.,
Ia., Mo., Neb., Colo., Idaho, Wash., Br. Col., Vanc. Isd.

1880. *Draeculacephala gillettei* Ball

Ball, Proc. Ia. Acad. Sci., viii, p. 72, 1901.

Van Duzee, Ent. News, xxvi, p. 179, 1915.

Locality: Colo.

1881. *Draeculacephala reticulata* (Sign.)

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 22, pl. 2, fig. 10, 1854, *Tettigonia*.

Ball, Proc. Ia. Acad. Sci., viii, p. 73, pl. 6, fig. 8, 1901.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.

Osborn, Ohio Nat., ix, p. 463, 1909.

Osborn, U. S. Dept. Agr., Div. Ent. Bul. 108, p. 52, 1912.

Barber, Bul. Am. Nat. Hist., xxxiii, p. 532, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.

Van Duzee, Ent. News, xxvi, p. 179, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916, *Dicrocephala*.

flaviceps Riley, Am. Ent., iii, p. 78, 1880, *Dicrocephala*.

Johnson and Fox, Ent. News, iii, p. 60, 1892, *Tettigonia*.

Howard, Insect Life, vi, p. 267, 1894, *Dicrocephala*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Dicrocephala*.

diducta Fowler, Biol. Centr. Am., Homop., ii, p. 274, pl. 18, fig. 17, 1900,

[*Tettigonia*.

Localities: Va., N. C., S. C., Ga., Fla., Ala., Miss., La., Mo., Ky.,

Tenn., Neb., Texas, Ariz., Calif. (West Indies, Mexico.)

[*Tettigonia cocrulenta* Sign. is not from our territory. See Ball, Proc. Ia.

[Acad. Sci., viii, p. 50, 1901]

Genus *Pagaronia* Ball

Haplotype *13-punctata* Ball

Ball, Can. Ent., xxxiv, p. 19, 1902.

1882. *Pagaronia 13-punctata* Ball

Ball, Can. Ent., xxxiv, p. 20, 1902.

a. var. *triunata* Ball

Ball, Can. Ent., xxxiv, p. 20, 1902.

b. var. *octopunctata* Kirk.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 70, 1909.

Locality: Calif.

1883. *Pagaronia tripunctata* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Tettigonia*.

Walker, List Homop., iv, p. 1158, 1852, *Tettigonia*.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 28, 1887, *Tettigonia*.

Provaucher, Pet. Faune Ent. Can., iii, p. 263, 1889, *Tettigonia*.

- Van Duzee, Ent. News, v, p. 157, 1894, *Tettigonia*.
 Ball, Proc. Ia. Acad. Sci., viii, p. 60, pl. 5, fig. 3, 1901, *Tettigonia*.
 Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Tettigonia*.
 Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Tettigoniella*.
 Van Duzee, Can. Ent., xlv, p. 327, 1912, *Kolla*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Kolla*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Kolla*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 24, 1916, *Kolla*.
 Van Duzee, Check List Hemip., p. 67, 1916.
 Localities: Ont., N. H., N. Y., N. J., Pa., Md., D. C., N. C., Miss.,
 Ohio, Ill., Tenn., Mo.

Genus **Evacanthus** L. & S.

Logotype *interruptus* Linn.

- Le Peletier and Serville, Eucye. Méth., x, p. 612, 1825.
 Germar, Silb. Rev. Ent., i, p. 180, 1833.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *interruptus*
 Blanchard, Hist. des Ins., Hémip., p. 193, 1840. [type].
 Amyot and Serville, Hémip., p. 574, 1843.
 Spinola, Tavola Sinot., p. 57, 1850.
 Provancher, Pct. Faune Ent. Can., iii, p. 269, 1889, *Evacantha*.
 ‡*Evacanthus* Burmeister, Handb. d. Ent., ii, p. 116, 1835.
 Herrich-Schaeffer, Nomen. Ent., i, p. 67, 1835.
 Flor, Rhyn. Livl., ii, p. 147, 1861.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
 Kirschbaum, Cicad. v. Wiesbd., pp. 17, 72, 1868.
 Stål, Hemip. Fabr., ii, p. 61, 1869.
 Sahlberg, Cicad., p. 106, 1871.
 Fieber, Cicad. d'Eur., i, p. 109, 1875; ii, pl. 10, 1876.
 Mayr, Tabellen, p. 29, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 13.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 281, 1894, *Eucanthus*.
 Melichar, Cicad. Mitt. Eur., p. 178, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 113, 1896.
 Oshanin, Verz. Palae. Hemip., i, p. 53, 1906.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 227, 1908.
 Van Duzee, Check List Hemip., p. 67, 1916, *Eucanthus*.

1884. **Evacanthus acuminatus** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 36, 1794, *Cicada*.
 Fabricius, Syst. Rhyn., p. 76, 1803, *Cicada*.
 Germar, Mag. d. Ent., iv, p. 72, 1821, *Tettigonia*.
 Burmeister, Handb. d. Ent., ii, p. 116, 1835.
 Herrich-Schaeffer, Nomen. Ent., i, p. 67, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 193, 1840.
 Flor, Rhyn. Livl., ii, p. 152, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 73, 1868.
 Sahlberg, Cicad., p. 108, 1871.
 Melichar, Cicad. Mitt. Eur., p. 179, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 113, pl. 13, fig. 10, 1896.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 182, pl. 19, fig. 3, 1897.

- Ball, Ia. Agr. Exp. Sta., Bul. 34, p. 618, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Ashmead, Harriman Alaska Exped., viii, p. 131, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Kirkaldy, Can. Ent., xli, p. 32, 1909.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 104, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
interstineta Fallén, Hemip. Suec., Cicad., p. 29, 1826, *Cicada*.
 Kirkaldy, Can. Ent., xli, p. 32, 1909.
germari Curtis, Ent. Mag., i, p. 192, 1833, *Amblycephalus*.
 Curtis, Brit. Ent., xii, pl. 572, 1835, *Amblycephalus*.
orbitalis Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
 Walker, List Homop., iv, p. 1159, 1852, *Tettigonia*.
 Van Duzee, Can. Ent., xxi, p. 9, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
 Slosson, Ent. News, xiii, p. 321, 1902.
 Localities: Quebec, Ont., Me., N. H., N. Y., Pa., D. C., N. C., Mich.,
 Ia., Wash., Vane. Isd.

1885. **Evacanthus interruptus** (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 419, No. 9, 1762, *Cicada*.
 De Geer, Mémoires, iii, p. 183, No. 7, pl. 12, fig. 6, 1773, *Cicada*.
 Fabricius, Syst. Ent., p. 685, 1775, *Cicada*.
 Goeze, Ent. Beytr., ii, p. 139, 1778, *Cicada*.
 Fabricius, Spec. Ins., ii, p. 325, 1781, *Cicada*.
 Retzius, Genera et Spec. Ins., p. 82, 1783, *Cicada*.
 Fabricius, Mant. Ins., ii, p. 270, 1787, *Cicada*.
 Gmelin, in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2107, 1788, *Cicada*.
 Fabricius, Ent. Syst., iv, p. 36, 1794, *Cicada*.
 Fabricius, Syst. Rhyng., p. 76, 1803, *Cicada*.
 Fallén, Hemip. Suec., Cicad., p. 28, 1826, *Cicada*.
 Burmeister, Hand. d. Ent., ii, p. 116, 1835.
 Herrieh-Schaeffer, Nomen. Ent., i, p. 67, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 193, 1840.
 Flor, Rhyn. Livl., ii, p. 149, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 72, 1868.
 Sahlberg, Cicad. p. 107, 1871.
 Melichar, Cicad. Mitt. Eur., p. 178, pl. 8, fig. 29, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 113, pl. 13, fig. 9, 1896.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 183, 1897.
 Localities: N. C., S. C. (Europe.)

Genus **Bathysmatophorus** Sahlb.

Haplotype *reuteri* Sahlb.

- Sahlberg, Cicad., p. 109, 1871.
 Fieber, Cicad. d'Eur., i, p. 108, 1875; ii, pl. 10, 1876.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 81, 1907.

1886. **Bathysmatophorus uhleri** Bak.

- Baker, Psyche, viii, p. 260, 1898.
 Locality: Calif.

Genus **Errhomenellus** Put.Haplotype *brachypterus* Fieb.Puton, Cat. Palae. Hemip., edn. 3, p. 79, 1886 (n.n. for *Errhomenus* Fieb.).

Oshanin, Verz. Palae. Hemip., ii, p. 97, 1906.

|| *Errhomenus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 501, 1866.

Fieber, Cicad. d'Eur., i, p. 104, 1875; ii, pl. 10, 1876.

Mayr, Tabellen, p. 28, 1884.

Melichar, Cicad. Mitt. Eur., p. 185, 1896.

1887. **Errhomenellus montanus** Bak.

Baker, Psyche, viii, p. 262, 1898.

Locality: Colo.

1888. **Errhomenellus lineatus** Bak.

Baker, Psyche, viii, p. 261, 1898.

Locality: Wash.

1889. **Errhomenellus oregonensis** Bak.

Baker, Psyche, viii, p. 262, 1898.

Locality: Ore.

1890. **Errhomenellus friscanus** Ball

Ball, Can. Ent., xli, p. 182, 1909.

Locality: Calif.

1891. **Errhomenellus irroratus** Ball

Ball, Can. Ent., xxxiv, p. 18, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Locality: Calif.

1892. **Errhomenellus maculatus** (G. & B.)Gillette and Baker, Hemip. Colo., p. 83, 1895, *Acoccephalus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Colo., Calif.

1893. **Errhomenellus aridus** Ball

Ball, Can. Ent., xli, p. 183, 1909.

Locality: Nev.

Subfamily **GYPONINAE** (Stål)Stål, Of. Vet. Akad. Forh., xxvii, p. 736, 1870, *Gyponina* (part).Berg, Hemip. Argent., p. 257, 1879, *Gyponina*.Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, pp. 14, 29, 1887, *Gyponina*.

Ashmead in Smith, Cat. Ins. N. J., edn. 1, p. 443, 1890.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892; xxi, p. 281, 1894, *Gyponina*.

Fowler, Biol. Centr. Am., Homop., ii, p. 293, 1903.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 240, 1908.

Scarides Amyot and Serville, Hémip., pp. lxiv, 576, 1843.Dolbrn, Cat. Hemip., p. 92, 1859, *Scaridae*.

[iii, p. 80, 1907.

Penthiminiæ Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 307, 1906;Genus **Penthimia** Germ.Haplotype *nigra* (Goez.)

Germar, Mag. d. Ent., iv, p. 46, 1821.

Gray in Griffith's Animal Kingd., xv, p. 226, 1832.

- Germar, Silb. Rev. Ent., i, p. 179, 1833.
 Burmeister, Handb. d. Ent., ii, pp. 105, 115, 1835.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
 Amyot and Serville, Hémip., p. 580, 1843.
 Walker, Cat. Homop., iii, p. 840, 1851.
 Flor, Rhyn. Livl., ii, p. 141, 1861.
 Stål, Hemip. Afr., iv, p. 107, 1866.
 Kirschbaum, Cicad. v. Wiesbd., p. 14, 1868.
 Fieber, Cicad. d'Eur., i, p. 105, 1875; ii, pl. 10, 1876.
 Mayr, Tabellen, p. 28, 1884.
 Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
 Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
 Melichar, Cicad. Mitt. Eur., p. 181, 1896.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 241, 1908.

1894. *Penthimia americana* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
 Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
 Gillette and Baker, Hemip. Colo., p. 83, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 100, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 29, 1916.
vicaria Walker, List Homop., iii, p. 841, 1851.
picta Provancher, Nat. Can., iv, p. 352, 1872.
 Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
 Localities: Quebec, Ont., Mass., Me., N. Y., N. J., Pa., N. C., Ga.,
 Fla., Mich., Ill., Tenn., Minn., Dak., Mont., Colo.

Genus *Zinneca* A. & S.

Haplotype *flavidorsum* A. & S.

- Amyot and Serville, Hémip., p. 579, 1843.

1895. *Zinneca flavidorsum* A. & S.

- Amyot and Serville, Hémip., p. 579, pl. 11, fig. 2, 1843.
 Locality: Pa.

Genus *Gypona* Germ.

Haplotype *glauca* (Fabr.)

- Germar, Mag. d. Ent., iv, p. 73, 1821.
 Germar, Silbermann, Rev. Ent., i, p. 180, 1833.
 Burmeister, Handb. d. Ent., ii, pp. 105, 114, 1835.
 Burmeister, Genera Ins., i, pl. 16, 1838.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 195, 1840.
 Amyot and Serville, Hémip., p. 579, 1843.
 Stål, Rio Jan. Hemip., ii, p. 45, 1858.
 Stål, Of. Vet. Akad. Forh., xix, p. 495, 1862.

- Stål, Stet. Ent. Zeit., xxv, p. 81, 1864.
 Stål, Hemip. Fabr., ii, p. 84, 1869.
 Spångberg, Spec. Gyp.; Bih. Vet. Akad. Handl., v, No. 3, p. 5, 1878.
 Berg, Hemip. Argent., p. 258, 1879.
 Woodworth, Bul. Ill., St. Lab. Nat. Hist., iii, p. 29, 1887.
 Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.

1896. **Gypona rugosa** Spångb.

- Spångberg, Spec. Gyponae, p. 6, 1878.
 Gillette and Baker, Hemip. Colo., p. 83, 1895.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.
Gypona sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
 Localities: Ont., N. Y., N. J., Pa., Fla., Miss., Ohio, Ky., Tenn.,
 Colo.(?), Utah(?). (Mexico.)

1897. **Gypona 8-lineata** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1824; Compl. Writ., ii, p. 257, *Tettigonia*.
 Harris in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia*. [gonia.
 Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 804, 1855, *Tettigonia*.
 Walker, List Homop., Suppl., p. 349, 1858, *Tettigonia*.
 Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 893, 1867.
 Rathvon in Mombert, Hist. Lane. Co., Pa., p. 551, 1869, *Tettigonia*.
 Van Duzee, Psyche, v, p. 390, 1890.
 Southwick, Science, xix, p. 318, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 ?Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
 ?Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 31, 1916.
8-lineata var. Spångberg, Spec. Gyponae, p. 7, 1878.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
 Localities: Ont., N. Y., N. J., Pa., N. C., Tenn., Mo., Kans.

1898. **Gypona cana** Burm.

- Burmeister, Genera Ins., i, pl. 16, No. 10, 1838.
 Spångberg, Ent. Tidskr., ii, p. 23, 1881.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Gibson and Cogan, Ohio Jl. Sci., p. 74, 1915. [Writ., ii, p. 257, *Tettigonia*.
8-lineata var. a, Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1824; Compl.
flavilineata Spångberg, Spec. Gyponae, p. 8, 1878.
†octolineata Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 460,
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884. [1877; iv, p. 510, 1878.

- Harrington, Ottawa Nat., vi, p. 32, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
 Gillette and Baker, Hemip. Colo., p. 83, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, 1897 (part).
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 62, 1912 (part).
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 105, 1915 (part).
 †*quebecensis* Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
 Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Fla.,
 Ohio, Kans., Mo., Colo., Utah, Texas, Calif.

1899. **Gypona quebecensis** (Prov.)

- Provancher, Nat. Can., iv, p. 352, 1872, *Tettigonia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 409, 1906; xl, p. 157, 1908; xlv, p. 327, 1912.
cana Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 106, 1915.
 Localities: Quebec, Ont., Me., N. Y., Pa.

1900. **Gypona pruinosa** Spångb.

- Spångberg, Spec. Gyponae, p. 9, 1878.
 Localities: Ga., Texas.

1901. **Gypona scrupulosa** Spångb.

- Spångberg, Spec. Gyponae, p. 9, 1878.
 Locality: S. C.

1902. **Gypona ramosa** Kirk.

- Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 60, 1907.
 Locality: Ariz.

1903. **Gypona olivacea** Spångb.

- Spångberg, Ent. Tidskr., i, p. 24, 1881.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Localities: "Am. Bor.," N. J.

1904. **Gypona striata** Burm.

- Burmeister, Genera Ins., i, pl. 16, No. 9, 1838.
 Walker, List Homop., iii, p. 839, 1851.
 Spångberg, Spec. Gyponae, p. 10, 1878.
 Slosson, Ent. News, xiii, p. 8, 1902.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
flavilincata Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
 Walker, List Homop., iv, p. 1159, 1852; Suppl., p. 256, 1858.
 Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 893, 1868.
 Van Duzee, Can. Ent., xxi, p. 9, 1889.
 Van Duzee, Psyche, v, p. 388, 1890.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
 Southwick, Science, xix, p. 318, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
 Gillette and Baker, Hemip. Colo., p. 83, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.

Van Duzee, Can. Ent., xxxviii, p. 409, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Osborn, Me. Agr. Exp. Sta., Bull., 238, p. 105, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 31, 1916.

†*8-lineata* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 30, 1887.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, 1897 (part).

Localities: Ont., Me., Mass., N. Y., N. J., Pa., D. C., N. C., Fla.,

Tenn., Wis., Ia., Kans., Mo., Colo., Texas, Calif.

1905. *Gypona verticalis* Stål

Stål, Stet. Ent. Zeit., xxv, p. 84, 1864.

Spångberg, Spec. Gyponae, p. 75, 1878.

Spångberg, Ent. Tidskr., ii, p. 28, 1881.

Fowler, Biol. Centr. Am., Homop., ii, p. 302, pl. 20, fig. 18, 1903.

mexicana Spångberg, Spec. Gyponae, p. 18, 1878.

Localities: Utah. (Mexico.)

1906. *Gypona melanota* Spångb.

Spångberg, Spec. Gyponae, p. 19, 1878.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 513, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.

nigra Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 31, 1887.

Localities: N. Y., N. J., Ga., Ill., N. Mex.

1907. *Gypona bimaculata* Spångb.

Spångberg, Spec. Gyponae, p. 23, 1878.

Fowler, Biol. Centr. Am., Homop., ii, p. 297, pl. 20, fig. 4, 1903.

Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 62, 1912.

Localities: N. Y., N. J., Pa., Ohio, Ind., Ill., Minn., Ia., Colo., Utah.

1908. *Gypona unicolor* Stål

Stål, Stet. Ent. Zeit., xxv, p. 84, 1864.

Spångberg, Spec. Gyponae, p. 25, 1878.

Fowler, Biol. Centr. Am., Homop., ii, p. 297, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 61, 1907.

Localities: Colo., Calif. (West Indies, Mexico.)

1909. *Gypona dorsalis* Spångb.

Spångberg, Spec. Gyponae, p. 30, 1878.

Fowler, Biol. Centr. Am., Homop., ii, p. 301, 1903.

†Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Localities: Kans., N. Mex. (Mexico.)

1910. *Gypona bipunctulata* Woodw.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 30, 1887.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 181, 1897 (excl. synonym.).

Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.

Localities: N. Y., Ill., Kans., Ia.

1911. *Gypona angulata* Spångb.

- Spångberg, Spec. Gyponae, p. 32, 1878.
 Townsend, Can. Ent., xxiv, p. 196, 1892.
 Gillette and Baker, Hemip. Colo., p. 83, 1895.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
 Localities: Colo., Utah, Texas, Calif.

1912. *Gypona tenella* Spångb.

- Spångberg, Spec. Gyponae, p. 34, 1878.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Localities: N. C., Ga., Fla.

1913. *Gypona geminata* Osb.

- Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
 Locality: N. Y.

1914. *Gypona mediatubunda* Spångb.

- Spångberg, Spec. Gyponae, p. 39, 1878.
 Locality: Texas.

1915. *Gypona citrina* Spångb.

- Spångberg, Spec. Gyponae, p. 45, 1878.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Localities: Fla., Texas.

1916. *Gypona woodworthi* Van D.

- Van Duzee, Can. Ent., xlvi, p. 389, 1915 (n.n. for *bimaculata* Woodw.).
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
 ||*bimaculata* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 32, 1887.
 [colon Fitch MS] Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
 Localities: N. C., Ill., Ia.

1917. *Gypona pectoralis* Spångb.

- Spångberg, Spec. Gyponae, p. 46, 1878.
 Spångberg, Ent. Tidskr., i, p. 33, 1881.
 Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
 Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
albimarginata Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 31, 1887.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
hullensis Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
 Localities: Quebec, Ont., N. Y., Pa., Mich., Ill., Mo.

1918. *Gypona pauperata* Spångb.

- Spångberg, Ent. Tidskr., i, p. 33, 1881.
 Locality: "Am. Sept."

1919. *Gypona limbatipennis* Spångb.

- Spångberg, Spec. Gyponae, p. 47, 1878.
 Locality: Ill.

1920. *Gypona puncticollis* Spångb.

Spångberg, Spec. Gyponae, p. 54, 1878.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.

Localities: Tenn., Texas.

1921. *Gypona quadri-notata* Spångb.

Spångberg, Spec. Gyponae, p. 56, 1878.

Localities: Ga., Texas.

1922. *Gypona albosignata* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 74.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Localities: Ont., Mass., N. Y., Ga.

1923. *Gypona scarlatina* Fitch

Fitch, Homop. N. Y. St. Cab., p. 57, 1851.

Walker, List Homop., iv, p. 1159, 1852.

Van Duzee, Psyche, v, p. 388, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Localities: N. H., Mass., N. Y., N. J., N. C., Ga., Mich.

1924. *Gypona irrorella* Spångb.

Spångberg, Spec. Gyponae, p. 60, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Localities: Fla., Texas.

1925. *Gypona sanguinolenta* Spångb.

Spångberg, Spec. Gyponae, p. 63, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

Localities: Ga., Fla., Texas.

1926. *Gypona modesta* Spångb.

Spångberg, Ent. Tidskr., iv, p. 107, 1883.

Locality: Ill.

1927. *Gypona grisea* Spångb.

Spångberg, Spec. Gyponae, p. 64, 1878.

Locality: Ga.

1928. *Gypona fraterna* Spångb.

Spångberg, Spec. Gyponae, p. 72, 1878.

Locality: Ga.

1929. *Gypona cinerea* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 460, 1877.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 32, 1887.

Localities: Mass., Conn., Ill., Kans., Colo., Utah.

[*Gypona columba* Fitch MS]

Uhler, Proc. Bost. Soc. Nat. Hist., xii, p. 327, 1869.

Locality: ?

Genus **Xerophloea** Germ.Haplotype *grisca* Germ. = *viridis* Fabr.

- Germar, Zeit. f. Ent., i, p. 190, 1839.
 Burmeister, Genera Ins., i, pl. 8, 1840.
 Walker, List. Homop., iii, p. 840, 1851.
 Berg, Hemip. Argent., p. 257, 1879.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 28, 1916.
Mesodicus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 501, 1866.
 Fieber, Cicad. d'Eur., i, p. 104, 1875.
 Mayr, Tabellen, p. 28, 1884.
Parapholis Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 461, 1877.

1930. **Xerophloea viridis** (Fabr.)

- Fabricius, Ent. Syst., iv, p. 50, 1794, *Cercopis*.
 Fabricius, Syst. Rhyng., p. 94, 1803, *Cercopis*.
 Stål, Hemip. Fabr., ii, p. 59, 1869.
 Berg, Ann. Mus. Natl. Buenos Aires, iv, p. 202, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, pl. 19, fig. 1, 1897.
 Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 28, 1916.
grisca Germar, Zeits. f. Ent., i, p. 190, 1839.
 Uhler, Proc. Zool. Soc. Lond. for 1895, p. 73.
virescens Stål, Of. Vet. Akad. Forh., xi, p. 253, 1854.
peltata Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 461, 1877, *Parapholis*.
 Uhler, Stand. Nat. Hist., ii, p. 248, 1884.
 Gillette and Baker, Hemip. Colo., p. 82, 1895.
 Tueker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
 Localities: Mass., N. Y., N. J., Md., Ga., Fla., Miss., Tenn., Neb.,
 Kans., Colo., Utah, Texas, Calif., Wash., Ore.

1931. **Xerophloea major** Bak.

- Baker, Psyche, viii, p. 285, 1898.
 Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 29, 1916.
 Localities: N. Y., N. J., Va., Tenn.

Subfamily **JASSINAE** (A. & S.)

- Amyot and Serville, Hémip., p. 581, 1843, *Jassides* (Groupe).
 Spinola, Tavola Sinot., pp. 56, 58, 1850, *Jassoideae*.
 Walker, List Homop., iii, p. 843, 1851, *Jassides* (part).
 Stål, Of. Vet. Akad. Forh., xxvii, p. 735, 1870, *Jassida* (includes *Gyponini*).
 Sahlberg, Cicad., p. 70, 1871, *Jassides* (includes *Bythoscopinac*).
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876, *Jassina*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 462, 1877.
 Berg, Hemip. Argent., p. 263, 1879, *Jassina*.
 Edwards, Ent. Mo. Mag., xx, p. 149, 1883. (Key to British genera).

- Osborn, Ent. Am., i, p. 26, 1885, *Jassidae* (includes *Bythoscopinac*).
 Ashmead, Ent. Am., iv, p. 67, 1888, *Jassida*.
 Provancher, Pet. Faune Ent. Can., iii, p. 271, 1889, *Jassides*.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Jassidae*. (Key to Am.
 Matsumura, Termes. Fuzet., xxv, p. 355, 1902. [genera.]
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 296, 324, 1906.
 Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 46, 1909.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 106, 1915. (Key.)

TRIBE *ACOCEPHALINI* (Dohrn)

- Dohrn, Cat. Hemip., p. 84, 1859, *Acocephalidae*. (Family.)
 Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868, *Acocephalidae*. (Subfamily.)
 Sahlberg, Cicad., pp. 72, 352, 1871, *Acocephalides*.
 Fieber, Kat. Cicad. Eur., p. 10, 1872, *Acocephalidae*. (Subfamily.)
 Mayr, Tabellen, p. 27, 1884, *Acocephalidae*. (Subfamily.)
 Puton, Cat. Hémip. Palae., edn. 3, p. 79, 1886.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Acocephalidae*. (Family.)
 Van Duzee, Trans. Am. Ent. Soc., xix, pp. 297, 298, 1892, *Acocephalina*. (Sub-
 [family.]
 Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 71, 1906, *Acocephalinae*. (Sub-
 [family.]
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 334, 1906, *Acocephalinae*. (Sub-
 [family.]
 Distant, Fauna Brit. Ind., Rhyn., iv, pp. 158, 265, 1908, *Acocephalinae*.
 [(Subfamily.)
 Van Duzee, Check List Hemip., p. 68, 1916.

Genus *Stroggylocephalus* Flor

Haplotype *agrestis* (Fall.)

- Flor, Rhyn. Livl., ii, p. 210, 1861.
 Van Duzee, Check List Hemip., p. 68, 1916.
 ‡*Stroggylocephalus* Kirschbaum, Cicad. v. Wiesbad., p. 74, 1868.
 Sahlberg, Cicad., pp. 72, 352, 1871.
 Fieber, Cicad. d'Eur., i, p. 111, 1875; ii, pl. 11, 1876.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 89, 1879.
 Mayr, Tabellen, p. 29, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 17.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
 Melichar, Cicad. Mitt. Eur., p. 188, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 117, 1896.

1932. *Stroggylocephalus agrestis* (Fall.)

- Fallén, Acta Holm, xxvii, p. 23, 1806, *Cicada*.
 Fallén, Hemip. Suec., Cicad., p. 36, 1829, *Cicada*.
 Burmeister, Genera Ins., i, pl. 12, 1838, *Selenocephalus*.
 Flor, Rhyn. Livl., ii, p. 210, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 74, 1868.
 ?Sahlberg, Cicad., p. 353, 1871.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 90, pl. 2, fig. 18, 1879.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 18.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
 Melichar, Cicad. Mitt. Eur., p. 189, pl. 9, figs. 19-21, 1896.

- Edwards, Hemip. Homop. Brit. Isds., p. 118, pl. 14, fig. 3, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1899, p. 64, 1900.
 Slosson, Ent. News, xiii, p. 321, 1902.
 Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
 Slosson, Ent. News, xvii, p. 326, 1906. [p. 258, *Tettigonia*.
mixta Say, Jl. Acad. Nat. Sci. Phila., iv, p. 341, 1825; Compl. Writ., ii,
 Localities: N. H., Conn., N. Y., Mich., Ia., Colo. (Europe.)

Genus **Acucephalus** Germ.

Logotype *costatus* Germ. = *nervosus* Sch.

- Germar, Silb. Rev. Ent., i, p. 181, 1833 (for *Cercopis striata* Fabr. and *Cicada*
 [subrustica Fall.]).
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *trifasciatus*
 Van Duzee, Check List Hemip., p. 68, 1916. [Geof. (Fabr.) pseudotype].
Aphrodes Curtis, Ent. Mag., i, p. 195, 1833 (haplotype *testudo* Curt. =
 [albifrons Linn.]).
 Curtis, Brit. Ent., xiv, pl. 633, 1837 (names *maculipes* Curt. pseudotype).
 ‡*Acoccephalus* Burmeister, Handb. d. Ent., ii, pp. 105, 111, 1835.
 Burmeister, Genera Ins., i, pl. 11, 1838 (names *costatus* Germ. type).
 Amyot and Serville, Hémip., p. 582, 1843.
 Kirschbaum, Cicad. v. Wiesbd., pp. 15, 73, 74, 1868.
 Sahlberg, Cicad., pp. 72, 355, 1871.
 Fieber, Cicad. d'Eur., i, p. 111, 1875; ii, pl. 11, 1876.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 61, 1879.
 Berg, Hemip. Argent., p. 264, 1879.
 Mayr, Tabellen, p. 30, 1884.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 19.
 Provancher, Pet. Faune Ent. Can., iii, pp. 273, 282, 1889.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
 Melichar, Cicad. Mitt. Eur., p. 190, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 119, 1896.
 Ball, Rept. Ia. Acad. Sci. for 1899, p. 64, 1900.
Pholetaera Zetterstedt, Ins. Lapp., column 288, 1840 (type *rustica* Fabr.).
Anoscopus Kirschbaum, Cicad. v. Wiesbd., p. 74, 1868 (type *histrionicus*
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 81, 1879. [Fabr.).

1933. **Acucephalus nervosus** (Schrank)

- Schrank, Enum. Ins. Aust., p. 252, 1781, *Cicada*.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 62, pl. 1, fig. 6, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
 Edwards, Hemip. Homop. Brit. Isds., p. 62, pl. 14, fig. 4, 1896.
 Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes*.
 Van Duzee, Check List Hemip., p. 68, 1916.
striata Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis*.
 Germar, Silb. Revue Ent., i, p. 181, 1833.
 Walker, List Homop., iii, p. 848, 1851.
 Sahlberg, Cicad., p. 356, 1871.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 288, 1894.
 Melichar, Cicad. Mitt. Eur., p. 191, pl. 9, fig. 22, 1896.
 Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 107, 1915; Bul. 248, p. 73, 1916.

transversa Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis*.

striatella Fabricius, Syst. Rhyng., p. 98, 1803, *Cercopis*.

rustica Fabricius, Syst. Rhyng., p. 97, 1803, *Cercopis*.

Herrieh-Schaeffer, Fauna Germ., exxiv, p. 15.

Flor, Rhyn. Livl., ii, p. 199, 1861.

Kirschbaum, Cicad. v. Wiesbd., p. 75, 1868.

costata Panzer, Fauna Germ., lxi, p. 14, 1799, *Cicada*.

fasciatus Curtis, Brit. Ent., xiii, pl. 620, 1836.

sparsus Curtis, Brit. Ent., xiii, pl. 620, 1836.

cardui Curtis, Brit. Ent., xiii, pl. 620, 1836.

obscurus Curtis, Brit. Ent., xiii, pl. 620, 1836.

rugosus Curtis, Brit. Ent., xiii, pl. 620, 1836.

unicolor Curtis, Brit. Ent., xiii, pl. 620, 1836.

pallidus Curtis, Brit. Ent., xiii, pl. 620, 1836.

bicinctus Curtis, Brit. Ent., xiii, pl. 620, 1836.

pulverulenta Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes*.

adustus Hardy, Tyneside Field Club, i, p. 429, 1846.

meratii Guérin, ?

Localities: Ont., Me., N. Y. (Palaearectic.)

1934. *Acucephalus fusco-fasciatus* (Goeze)

Goeze, Ent. Beytr., ii, p. 161, no. 32, 1778, *Cicada*.

Bergroth, Bul. Soc. Ent. Fr. for 1890, p. lxvi.

Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes*.

Cicada no. 22, Geoffroy, Hist. Abreg. des Ins., i, p. 425, 1762.

brunneo bifasciatus Geoffroy, Hist. Abreg. des Ins., edn. 2, p. 425, no. 22,
[1764, *Cicada* (not binominal).]

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 82, 1879.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

transversalis Geoffroy in Foureroy, Ent. Paris., p. 190, 1785, *Cicada*.

bistriata Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2116, 1788,

serratulac Fabricius, Ent. Syst., iv, p. 41, 1794, *Cicada*. [Cicada.]

Fabricius, Syst. Rhyng., p. 54, 1803, *Flata*.

Herrieh-Schaeffer, Fauna Germ., exxx, p. 5, *Jassus*.

Kirschbaum, Cicad. v. Wiesbd., p. 78, 1868.

Sahlberg, Cicad., p. 362, 1871.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 2, fig. 15, 1879.

Melichar, Cicad. Mitt. Eur., p. 196, 1896.

Localities: N. J. (Europe.)

1935. *Acucephalus flavostrigatus* (Donov.)

Donovan, Brit. Ins., viii, p. 28, pl. 288, fig. 2, 1799, *Cicada*.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 85, 1879.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.

Oshanin, Verz. Palae. Hemip., ii, p. 94, 1906.

rivularis Germar, Mag. d. Ent., iv, p. 89, 1821, *Jassus*.

Flor, Rhyn. Livl., ii, p. 205, 1861.

Kirschbaum, Cicad. v. Wiesbd., p. 77, 1868.

Sahlberg, Cicad., p. 363, 1871.

Melichar, Cicad. Mitt. Eur., p. 197, 1896.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes*.

§*flavo-lineatus* Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 2, fig. 17, 1879.

§*flavo-striatus* Edwards, Hemip. Homop. Brit. Isds., p. 124, pl. 14, fig. 11,

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

[1896.

Localities: Vt., N. Y. (Europe.)

1936. *Acucephalus albifrons* (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.

Linnaeus, Fauna Suec., new edn., p. 241, sp. 884, 1761, *Cicada*.

Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.

Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2103, 1788, *Cicada*.

Fallén, Hemip. Suec., Cicad., p. 25, 1826, *Cicada*.

Flor, Rhyn. Livl., ii, p. 203, 1861.

Sahlberg, Cicad., p. 360, 1871.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 76, pl. 2, fig. 14, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 122, pl. 14, figs. 6-8, 1896.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

Slosson, Ent. News, xvii, p. 326, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes*.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

[history).

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 108, 1915; Bul. 248, p. 69, 1916 (life

nitidula, Donovan, Brit. Ins., viii, p. 87, pl. 288, fig. 1, 1799, *Cicada*.

concinna Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes*.

testudo Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes*.

nigropunctata Zetterstedt, Ins. Lapp., column 288, 1840, *Pholetaera*.

Sahlberg, Cicad., p. 360, 1871.

livens Zetterstedt, Ins. Lapp., column 288, 1840, *Pholetaera*.

interruptus Scott, Ent. Mo. Mag., ix, p. 264, 1873.

polystolus Scott, Ent. Mo. Mag., ix, p. 265, 1873.

circumflexus Provancher, Pet. Faune Ent. Can., iii, p. 282, 1889.

†*mixtus* Van Duzee, Psyche, v, p. 390, 1890.

Southwick, Science, xix, p. 318, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 288, 1894.

a. var. *fuliginosus* Sign.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 79, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

b. var. *arcuatus* Kirschh.

Kirschbaum, Cicad. v. Wiesbd., p. 75, 1868.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

c. var. *subrusticus* (Fall.)

Fallén, Acta Holm for 1806, p. 10, *Cicada*.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

d. var. *apicalis* Sign.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

c. var. **albiger** (Germ.)Germar, Mag. d. Ent., iv, p. 88, 1821, *Jassus*.Germar, Fauna Eur., fasc. xvii, p. 17, 1834, *Jassus*.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

f. var. **confusus** (Kirschb.)Kirschbaum, Cicad. v. Wiesbd., p. 78, 1868, *Anoscopus*.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.

Melichar, Cicad. Mitt. Eur., p. 195, 1896.

g. var. **argus** Rey

Rey, Revue d'Ent., x, p. 245, 1891.

[The varieties have not been worked out in this country.]

Localities: Ont., Me., N. H., N. Y., Pa., D. C., Mich., Wise.

(Europe.)

1937. **Acucephalus placidus** (Prov.)Provancher, Pet. Faune Ent. Can., iii, p. 280, 1889, *Selenocephalus*.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Locality: Quebec(?).

Genus **Memnonia** BallOrthotype *consobrina* Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 66, 1900.

1938. **Memnonia consobrina** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 66, pl. 5, figs. 6-10, 1900.

Localities: Neb., Colo.

1939. **Memnonia fraterna** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 67, 1900.

Localities: Neb., Colo.

Genus **Xestocephalus** Van D.Logotype *pulicarius* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 214, 1894 (described).

Matsumura, Termes. Fuzet., xxv, p. 402, 1902.

Melichar, Homop. Fauna Ceyl., p. 205, 1903.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 51, 1907.

Distant, Fauna Brit. Ind., Rhyn., iv, pp. 265, 348, 1908 (names *pulicarius* type).Van Duzee, Can. Ent., xli, p. 384, 1909 (cites *pulicarius* as type).1940. **Xestocephalus pulicarius** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 215, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 284, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907; ix, p. 216, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Melichar, Notes from Leyden Mus., xxxvi, p. 139, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C., Fla., Miss.,
Ohio, Tenn., Mo., Kans., Ia., Utah. (West Indies.)

1941. **Xestocephalus superbus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 339, 1890, *Deltoccephalus*.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

fulvocapitatus Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 215, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.

Localities: Quebec, Ont., Me., N. Y., Pa., Ohio, Tenn.

1942. **Xestocephalus tessellatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 216, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.

Localities: Pa., N. C., Fla., Miss., Tenn., Mo., Texas.

1943. **Xestocephalus coronatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 184, pl. 19, fig. 2, 1897.

Locality: Ia.

1944. **Xestocephalus nigrifrons** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 34, 1916.

Localities: Me., Tenn.

1945. **Xestocephalus brunneus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907.

Localities: Mass., R. I., N. Y., Pa.

Genus **Nionia** Ball

Orthotype *palmeri* (Van D.)

Ball, Proc. Biol. Soc. Wash., xxviii, p. 165, 1915.

†*Goniagnathus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 33, 1916.

1946. **Nionia palmeri** (Van D.)

Van Duzee, Can. Ent., xxiii, p. 171, 1891, *Goniagnathus*.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904, *Goniagnathus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Goniagnathus*.

Osborn, Ohio Nat., v, p. 274, 1905, *Goniagnathus*.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Goniagnathus*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Goniagnathus*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 33, 1916, *Goniagnathus*.

Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915 (as type of *Nionia*).

Localities: N. Y., N. J., Pa., N. C., Ohio, Tenn.

TRIBE JASSINI (Dohrn)

Dohrn, Cat. Hemip., p. 86, 1859, *Jassidae*.

Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868, *Jassidae*.

Sahlberg, Cicad., p. 70, 1871, *Jassides*.

Mayr, Tabellen, p. 30, 1884, *Jassidae*.

Puton, Cat. Hémip. Palae., edn. 3, p. 81, 1886.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Jassidae*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Jassina*.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 296, 324, 1906, *Jassinac*.

DIVISION DORYDIARIA (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xix, p. 288, 1892, *Dorydini*. (Tribe.)

Van Duzee, Check List Hemip., p. 68, 1915.

Cephalclini Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 72, 1907.

Uccalusaria Distant, Fauna Brit. Ind., Rhyn., iv, p. 273, 1908.

Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 46, 1909.

Genus *Dorycephalus* Kusch.

Haplotype *bacri* Kusch.

Kuschakewitch, Horae Soc. Ent. Ross., iv, p. 102, pl. 2, 1866.

Fieber, Cicad. d'Eur., i, p. 114, 1875; ii, pl. 11, 1876.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 265, 1879.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 67, 1900.

1947. *Dorycephalus platyrhynchus* Osb.

Osborn, Can. Ent., xxvi, p. 216, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 185, pl. 20, fig. 1, 1897.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 65, fig. 7, 1912.

Dorycephalus sp., Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Localities: Ia., Neb., Kans., Colo.

1948. *Dorycephalus vanduzeei* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 74, pl. 6, fig. 2, 1898.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.

Localities: Fla., Neb., Kans., Colo.

Genus *Neoslossonia* Van D.

Orthotype *atra* Van D. = *putnami* (Osb.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 218, 1909.

Van Duzee, Can. Ent., xl, p. 384, 1909 (cites *putnami* as type).

1949. *Neoslossonia putnami* (Osb.)

Osborn, Proc. Dav. Acad. Sci., x, p. 163, 1907, *Dorycephalus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

atra Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 218, 1909.

Localities: Ga., Fla.

Genus **Hecalus** Stål
 Logotype *paykulli* Stål

- Stål, Ann. Soc. Ent. Fr., ser. 4, iv, p. 65, 1864.
 Stål, Hemip. Afr., iv, p. 113, 1866.
 Berg, Hemip. Argent., p. 273, 1879.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 266, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 273, 1908.
Glossocratus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
 Fieber, Cicad. d'Eur., i, p. 116, 1875; ii, pl. 11, 1876.

1950. **Hecalus apicalis** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 217, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Locality: Fla.

1951. **Hecalus bracteatus** Ball

- Ball, Can. Ent., xxxiii, p. 4, 1901.
 Locality: Colo.

1952. **Hecalus lineatus** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 463, 1877, *Glossocratus*.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 267, pl. 7, fig. 25, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 188, pl. 20, fig. 2, 1897.
 Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.
 Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 64, fig. 6, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Jfenstratus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 464, 1877, *Glossocratus*.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 268, 1879; x, p. 42, pl. 1,
 [fig. 37, 1880.
 Localities: Mass., N. Y., N. J., Mo., Kans., Ia., Neb., Minn., S. D.,
 N. D., Colo.

Genus **Spangbergiella** Sign.
 Haplotype *vulnerata* (Uhl.)

- Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 273, 1879.

1953. **Spangbergiella vulnerata** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 464, 1877, *Glossocratus*.
 Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 274, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 247, 1884, *Spangbergia*.
 Baker, Can. Ent., xxix, p. 157, 1897.
 Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900 (excl. synonym.).
 Osborn, 20th Rept. N. Y. St. Ent., p. 516, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907; ix, p. 219, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 36, 1916.

laertae Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 8, fig. 29, 1879.

Localities: N. Y., N. J., N. C., Fla., Tenn., Ark., Texas.

1954. **Spangbergiella mexicana** Bak.

Baker, Can. Ent., xxix, p. 157, 1897.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Locality: Fla.

Genus **Parabolocratus** Fieb.

Haplotype *glaucescens* Fieb. (*sulcatus* in Fieber key)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pp. 502, 513, 1866.

Fieber, Cicad. d'Eur, i, p. 117, 1875; ii, pl. 12, 1876.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 275, 1879; x, p. 41, 1880.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 70, 1900.

1955. **Parabolocratus viridis** (Uhler)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 462, 1877, *Glossocratus*.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 275, pl. 8, fig. 30, 1879.

Uhler, Stand. Nat. Hist., ii, p. 247, 1884.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.

Gillette and Baker, Hemip. Colo., p. 84, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 189, pl. 21, fig. 1, 1897.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 68, fig. 8, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 37, 1916.

[*Gypona*.

[*reverta* Uhler MS] Hayden's Surv. Terr., Rept. for 1870, p. 472, 1872,

[*cyperacae* Fitch MS] Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 88, 275,

[1879, *Sclenocephalus*.

a. var. montanus Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.

Localities: Quebec, Ont., N. H., Mass., Conn., N. Y., N. J., Pa.,
Tenn., Ill., Ia., Mo., Mont., Colo., Calif.

1956. **Parabolocratus major** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 110, 1915.

Locality: Me.

1957. **Parabolocratus flavidus** Sign.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 276, pl. 8, fig. 31, 1879.

Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 37, 1916.

Localities: N. C., Fla., Ala., Ia., Kans., Texas.

1958. **Parabolocratus brunneus** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.

Localities: Neb., Colo.

Genus **Dicyphonia** BallOrthotype *ramentosa* Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 69, 1900.

1959. **Dicyphonia ramentosa** BallBall, Rept. Ia. Acad. Sci. for 1899, p. 69, pl. 5, figs. 1-5, 1900 (misprinted
Localities: Neb., Colo. [*pamentosa*]).1960. **Dicyphonia ornata** (Bak.)Baker, Can. Ent., xxxii, p. 49, 1900, *Platymetopius*.

Locality: Kans.

Genus **Cochlorhinus** Uhl.Haplotype *pluto* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.

Ball, Can. Ent., xxxiv, p. 53, 1902.

1961. **Cochlorhinus pluto** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876.

Ball, Can. Ent., xxxiv, p. 54, pl. 2, fig. 1, 1902.

Locality: Calif.

Genus **Uhleriella** BallOrthotype *coquilletti* (Van. D.)

Ball, Can. Ent., xxxiv, p. 54, 1902.

1962. **Uhleriella coquilletti** (Van D.)Van Duzee, Ent. Am., vi, p. 95, 1890, *Deltoccephalus*.Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettiz*.

Ball, Can. Ent., xxxiv, p. 55, pl. 2, fig. 2, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Locality: Calif.

1962½. **Uhleriella ziczac** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915.

Locality: Calif.

1963. **Uhleriella stygica** Ball

Ball, Can. Ent., xxxiv, p. 55, pl. 2, fig. 3, 1902.

Locality: Calif.

1963½. **Uhleriella pasadena** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915.

Locality: Calif.

1964. **Uhleriella signata** Ball

Ball, Can. Ent., xxxiv, p. 56, pl. 2, fig. 4, 1902.

Locality: Calif.

Genus **Drionia** BallOrthotype *nigra* Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 167, 1915.

1964½. **Drionia nigra** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 167, 1915.

Locality: Ore.

Genus **Huleria** BallOrthotype *4-punctata* Ball

Ball, Can. Ent., xxxiv, p. 57, 1902.

1965. **Huleria 4-punctata** Ball

Ball, Can. Ent., xxxiv, p. 58, pl. 2, fig. 5, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Locality: Calif.

DIVISION **DELTOCEPHALARIA** (Fieb.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 201, 1869, *Deltocephali*.

Van Duzee, Trans. Am. Ent. Soc., xix, pp. 298, 299, 1892, *Deltocephalini*.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 371, 1908, *Deltocephalusaria*.

Genus **Aligia** BallOrthotype *jucunda* (Uhl.)

Ball, Proc. Dav. Acad. Sci., xii, pp. 31, 53, 75, 1907 (as subgenus of *Eutettix*).

Van Duzee, Check List Hemip., p. 69, 1916. [1894.]

†*Allygus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892; xxi, p. 294,

1966. **Aligia inscripta** (Van D.)

Van Duzee, Ent. Am., vi, p. 92, 1890, *Allygus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 54, pl. 3, fig. 1, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

Locality: Calif.

1967. **Aligia oculatea** (Ball)

Ball, Can. Ent., xxxiii, p. 50, 1901, *Eutettix*.

Ball, Proc. Dav. Acad. Sci., xii, p. 53, 1907.

Locality: Colo.

1968. **Aligia jucunda** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 469, 1877, *Jassus*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 97, note, 1898, *Paramesus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 55, pl. 3, fig. 2, 1907.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Md.(?), Colo., N. Mex., Texas, Ariz., Utah, Calif.

1969. **Aligia munda** (Ball)

Ball, Can. Ent., xxxiii, p. 48, 1901, *Eutettix*.

Ball, Proc. Dav. Acad. Sci., xii, p. 57, pl. 3, fig. 3, 1907.

Localities: Colo., N. Mex., Ariz.

1970. *Aligia modesta* (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 98, 1898, *Eutettix*.

Ball, Proc. Dav. Acad. Sci., xii, p. 58, pl. 3, fig. 4, 1907.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

Localities: Pa., D. C., N. C., Ia.

1971. *Aligia manitou* (Ball)

Ball, Can. Ent., xxxiii, p. 49, 1901, *Eutettix*.

Ball, Proc. Dav. Acad. Sci., xii, p. 58, pl. 3, fig. 5, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907, *Eutettix*.

Localities: Colo., N. Mex.

Genus *Mesamia* BallOrthotype *nigridorsum* Ball

Ball, Proc. Dav. Acad. Sci., xii, pp. 31, 59, 75, 1907 (as subgenus). [1894.

†*Paramesus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892; xxi, p. 290,

1972. *Mesamia nigridorsum* Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 60, pl. 3, fig. 6; pl. 4, fig. 6, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 68, 1916, *Eutettix*.

†*twiningi* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 290, 1894, *Paramesus*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.

†*juvencus* Gillette and Baker, Hemip. Colo., p. 84, 1895, *Paramesus*.

Localities: N. J., Pa., N. C., Tenn., Ia., Dak., Kans., Colo., Utah.

1973. *Mesamia straminea* (Osb.)

Osborn, Proc. Ia. Acad. Sci., v, p. 241, 1898, *Paramesus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 62, pl. 3, fig. 7; pl. 4, fig. 7, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Localities: Ia., Dak., Neb., Kans., Colo., Utah, Calif.

1974. *Mesamia coloradensis* (G. & B.)

Gillette and Baker, Hemip. Colo., p. 91, 1895, *Allygus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 63, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Paramesus*.

immaculatus Ball, Can. Ent., xxxvii, p. 211, 1905, *Paramesus*.

a. var. *visalia* Ball

Ball, Can. Ent., xlviii, p. 128, 1916.

Localities: La.(?), Colo., Utah, Calif. (Mexico.)

1975. *Mesamia vitellina* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 57, 1851, *Acoccephalus*.

Van Duzee, Can. Ent., xxi, p. 9, 1889, *Acoccephalus*.

Van Duzee, Psyche, v, p. 390, 1890, *Selenocephalus*.

Southwick, Science, xix, p. 318, 1892, *Paramesus*.

Van Duzee in Lintner's 9th Rept. N. Y. St. Ent., p. 410, 1893, *Paramesus*.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 290, 1894, *Paramesus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894, *Paramesus*.

Gillette and Baker, Hemip. Colo., p. 84, 1895, *Paramesus*.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904, *Paramesus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 516, 1905, *Paramesus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Paramesus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 67, pl. 4, fig. 2, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915, *Eutettix*.

twiningi Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878, *Jassus*.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904, *Paramesus*.

furcatus Osborn, Can. Ent., xxxii, p. 285, 1900, *Paramesus*.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Mich.,

Manitoba, N. D., S. D., Ia., Neb., Colo., Utah, Wash., Br. Col.,

Vanc. Isl.

1976. *Mesamia palliolata* (Ball)

Ball, Can. Ent., xxxiv, p. 13, 1902, *Eutettix*.

Ball, Proc. Dav. Acad. Sci., xii, p. 69, pl. 3, fig. 9, 1907.

Locality: Texas.

1977. *Mesamia illumina* Ball

Ball, Can. Ent., xli, p. 80, 1909.

Locality: Ariz.

1978. *Mesamia(?) irrorellus* (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 295, 1859, *Athysanus*.

Ball, Proc. Dav. Acad. Sci., xii, p. 70, 1907.

Locality: Calif.

Genus *Scaphoideus* Uhl.

Logotype *immistus* (Say)

Uhler, Trans. Md. Acad. Sci., i, p. 33, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 276, 1889.

Van Duzee, Ent. Am., vi, p. 52, 1890.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 187, 1900 (monograph).

Matsumura, Termes. Fuzet., xxv, p. 383, 1902.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 371, 1908.

Osborn, Ohio Nat., xi, p. 249, 1911.

1979. *Scaphoideus fasciatus* Osb.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 190, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.

Osborn, Ohio Nat., xi, p. 252, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Localities: N. J., Fla. (West Indies.)

1980. *Scaphoideus sanctus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 307, 1831; Compl. Writ., ii, p. 383.

Walker, List Homop., iv, p. 1164, 1852, *Jassus*.

[*Jassus*.

Osborn, Ohio Nat., xi, p. 251, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 55, 1916.

picturatus Osborn, Proc. Ia. Acad. Sci., v, p. 243, 1898.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 193, 1900.

Localities: N. J., N. C., Ohio, Ky., Tenn., Ind., Ia., Ill., Mo.

1981. *Scaphoideus neglectus* Osb.

Osborn, Ohio Nat., xi, p. 252, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

†*sanctus* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 300, 1894.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 191, 1900.

†*fasciatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.

Localities: Fla., Miss., Texas. (Mexico.)

1982. *Scaphoideus cruciatus* Osb.

Osborn, Ohio Nat., xi, p. 253, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

†*sanctus*(?) Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.

Localities: N. Y., N. J., Fla.

1983. *Scaphoideus auronitens* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 277, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 194, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.

Osborn, Ohio Nat., xi, p. 254, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.

[*areatus* Harris MS] in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus*.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 308, 1894.

Van Duzee, Can. Ent., xli, p. 383, 1909.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C., Fla., Ohio, Tenn., Ill.

1984. *Scaphoideus jucundus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 34, 1889.

Van Duzee, Can. Ent., xxi, p. 11, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 195, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.

Osborn, Ohio Nat., xi, p. 254, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.

Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Tenn., Ia., Mo.

1985. *Scaphoideus unicolor* Osb.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 196, 1900 (as var. of *consors*).

Osborn, Ohio Nat., xi, p. 255, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 57, 1916.

Localities: Mass., N. Y., D. C., W. Va., Ga., Fla., Ala., Texas

1986. *Scaphoideus albonotatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.

Osborn, Ohio Nat., xi, p. 255, 1910.

♂ *albonotus* Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Locality: Fla.

1987. *Scaphoideus consors* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 36, 1889.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 196, 1900.

Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

Localities: N. Y., Pa., Md., D. C., N. C., Fla., Ohio, Colo., Utah, Texas.

1988. *Scaphoideus scalaris* Van D.

Van Duzee, Ent. Am., vi, p. 51, 1890.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 198, 1900.

Slosson, Ent. News, xiii, p. 321, 1902.

Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Osborn, Ohio Nat., ix, p. 464, 1909; xi, p. 255, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.

Localities: Me., N. H., N. Y., Pa., Fla., Ohio, Tenn., Ia., Kans., Mo., Ariz., Calif., Wash. (Mexico, Centr. Am.)

1989. *Scaphoideus lobatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 199, 211, 1894.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 199, 1900.

Slosson, Ent. News, xiii, p. 321, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.

Osborn, Ohio Nat., xi, p. 256, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

Localities: Me., N. H., N. Y., N. J., Pa., N. C., Ohio, Ia.

1990. *Scaphoideus ochraceus* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 242, 1898.

Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 199, 1900.

- Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
 Osborn, Ohio Nat., xi, p. 258, 1910.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 57, 1916.
 Localities: N. H., N. Y., Pa., Tenn., Ia.

1991. **Scaphoideus productus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 200, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, Ohio Nat., xi, p. 258, 1910.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
 Localities: Me., Mass., N. Y., Pa., N. C., Ky., Ia., Kans., Mo.

1992. **Scaphoideus carinatus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 201, 1900.
 Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
 Osborn, Ohio Nat., xi, p. 258, 1910.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 Localities: Me., N. H., N. Y., N. J., N. C., Ohio.

1993. **Scaphoideus nigricans** Osb.

- Osborn, Ohio Nat., xi, p. 258, 1910.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.
 Localities: N. C., Tenn.

1994. **Scaphoideus intricatus** Uhl.

- Uhler, Trans. Md. Acad. Sci., i, p. 34, 1889.
 Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 202, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
 Osborn, Ohio Nat., xi, p. 258, 1910.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.
 Localities: N. H., N. Y., N. J., Pa., Md., Va., Ohio, Ky., Tenn.,
 Mich., Ia., Neb., Kans.

1995. **Scaphoideus luteolus** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 210, 1894.
 Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 203, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.
 Osborn, Ohio Nat., xi, p. 259, 1910.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.
 Localities: Me., N. Y., N. J., Pa., Ohio, Tenn., Ill., Ia.

1996. **Scaphoideus immistus** (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 306, 1831; Compl. Writ., ii, p. 382, *Jassus*.
 Van Duzee, Can. Ent., xxi, p. 11, 1889, *Jassus*.
 Uhler, Trans. Md. Acad. Sci., i, p. 33, 1889.

- Provancher, Pet. Faune Ent. Can., iii, p. 276, 1890.
 Van Duzee, Psyche, v, p. 389, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
 Gillette and Baker, Hemip. Colo., p. 94, 1895.
 Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 204, 1900.
 Slosson, Ent. News, xiii, p. 321, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Van Duzee, Can. Ent., xl, p. 158, 1908.
 Osborn, Ohio Nat., xi, p. 259, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.

a. var. **minor** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 205, 1900.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.

b. var. **major** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 205, 1900.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.

c. var. **incisus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 206, 1900.
 Localities: Quebec, Ont., Me., N. H., Vt., Mass., N. Y., N. J., Pa.,
 D. C., W. Va., N. C., Fla., Ala., Ohio, Tenn., Mich., Ill., Ia.,
 Mo., Kans., Colo., Texas, Calif.

1997. **Scaphoideus melanotus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 206, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
 Osborn, Ohio Nat., xi, p. 259, 1910.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.
 Localities: Pa., Md., Tenn., Texas.

1998. **Scaphoideus obtusus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 207, 1900.
 ?Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
 Osborn, Ohio Nat., xi, p. 260, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
 Localities: N. Y., Fla., Ill., Ia.

1999. **Scaphoideus cinerosus** Osb.

- Osborn, Jl. Cine. Soc. Nat. Hist., xix, p. 208, 1900.
 Osborn, Ohio Nat., xi, p. 259, 1910.
 Localities: Ill., Ia.

2000. **Scaphoideus opalinus** Osb.

- Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.

Osborn, Ohio Nat., xi, p. 260, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Localities: N. Y., N. J., Fla.

2001. *Scaphoideus fumidus* Ball

Ball, Can. Ent., xxxiii, p. 8, 1901.

Osborn, Ohio Nat., xi, p. 254, 1910.

Localities: Colo., Ariz.

2002. *Scaphoideus bicolor* Ball

Ball, Ent. News, xx, p. 166, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Locality: Calif.

2003. *Scaphoideus blandus* Ball

Ball, Can. Ent., xxxiii, p. 7, 1901.

Osborn, Ohio Nat., xi, p. 256, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Localities: Colo., Calif.

2004. *Scaphoideus pellucidus* Ball

Ball, Can. Ent., xli, p. 83, 1909.

Locality: Calif.

2005. *Scaphoideus catalinus* Ball

Ball, Can. Ent., xli, p. 82, 1909.

Locality: Ariz.

2006. *Scaphoideus scrupulosus* Ball

Ball, Can. Ent., xxxiv, p. 14, 1902.

Osborn, Ohio Nat., xi, p. 256, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

a. var. reductus Ball

Ball, Can. Ent., xli, p. 84, 1909.

Locality: Calif.

2007. *Scaphoideus irroratus* Osb.

Osborn, Ohio Nat., xi, p. 257, 1910.

Locality: Calif.

Genus *Platymetopius* Burm.

Logotype *undatus* (DeG.)

Burmeister, Genera Ins., i, pl. 14, subgenus 4, 1838.

Flor, Rhyn. Livl., ii, p. 221, 1861.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.

Kirschbaum, Cicad. v. Wiesbd., pp. 82, 146, 1868.

Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 201, 1869.

Sahlberg, Cicad., pp. 72, 295, 1871.

Fieber, Cicad. d'Eur., i, p. 124, 1875; ii, pl. 13, 1876.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 52, 1879.

Berg, Hemip. Argent., p. 272, 1879.

Mayr, Tabellen, p. 35, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 17, 26.

Provancher, Pet. Faune Ent. Can., iii, p. 274, 1889.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

Melichar, Cicad. Mitt. Eur., p. 207, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 127, 1896.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 191, 1897.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 214, 1910 (monograph Am. species).

Proceps Mulsant and Rey, Ann. Soc. Linn. Lyons for 1855, p. 237.

2008. **Platymetopius hyalinus** Osb.

Osborn, Ent. News, xi, p. 501, 1900.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 218, 1910.

Localities: Pa., D. C.

2009. **Platymetopius modestus** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 255, 1854.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.

Locality: "Carolina."

2010. **Platymetopius pyrops** (Crmb.)

Crumb, Ann. Ent. Soc. Am., viii, p. 191, 1915, *Deltocephalus*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 53, 1916, *Deltocephalus*.

Locality: Tenn.

2011. **Platymetopius nigriviridis** Ball

Ball, Ent. News, xx, p. 163, 1909.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 218, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

a. var. **dixianus** Ball

Ball, Ent. News, xx, p. 163, 1910.

Localities: Utah, Calif.

2012. **Platymetopius majestus** Ball

Ball, Ent. News, xx, p. 164, 1909.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Locality: Calif.

2013. **Platymetopius elegans** Van D.

Van Duzee, Ent. Am., vi, p. 94, 1890.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Locality: Calif.

2014. **Platymetopius acutus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 306, 1831; Compl. Writ., ii, p. 382,

Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus*.

[*Jassus*.

Walker, List Homop., iii, p. 894, 1851; iv, p. 1163, 1852, *Jassus*.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 473, 1877.

Van Duzee, Can. Ent., xxi, p. 11, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 275, 1889.

- Van Duzee, Psyche, v, p. 389, 1890.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
 Townsend, Can. Ent., xxiv, p. 197, 1892.
 Davis, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 3, 1893.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
 Gillette and Baker, Hemip. Colo., p. 84, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 192, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Van Duzee, Can. Ent., xl, p. 157, 1908.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.
 Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 69, fig. 9, 1912.
 Van Duzee, Can. Ent., xlv, p. 327, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 111, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.

a. var. dubius Van D.

- Van Duzee, Ann. Ent. Soc. Am., iii, p. 220, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.
†latus Van Duzee, Can. Ent., xl, p. 157, 1908.
 Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa.,
 N. C., Ohio, Tenn., Mo., Kans., Colo., Utah, Calif., Br. Col.

2015. *Platymetopius oregonensis* Bak.

- Baker, Can. Ent., xxxii, p. 49, 1900.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 220, 1910.
 Localities: Colo., N. Mex., Utah, Calif., Ore.

2016. *Platymetopius latus* Bak.

- Baker, Can. Ent., xxxii, p. 50, 1900.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 221, 1910.
 Localities: Quebec, Ont.

2017. *Platymetopius cuprescens* Osh.

- Osborn, 20th Rept. N. Y. St. Ent., p. 517, 1905.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 221, 1910.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 112, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.
 Localities: Quebec, Ont., Me., N. Y., N. C., Tenn., Colo., Utah.

2017½. *Platymetopius trilineatus* Ball

- Ball, Ent. News, xxvii, p. 204, 1916.
 Locality: Calif.

2018. *Platymetopius slossoni* Van D.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 222, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Localities: Fla., Calif.

2019. *Platymetopius cinereus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 193, pl. 26, fig. 1, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 223, 1910.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 72, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.

Localities: N. C., Fla., Tenn., Ia., Neb., Kans., Ariz.

2020. *Platymetopius angustatus* Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 518, 1905.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 223, 1910.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.

Localities: N. Y., Mo.

2020_{1/2}. *Platymetopius parvus* Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 122, 1917.

Locality: S. C.

2021. *Platymetopius fulvus* Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 224, 1910.

Localities: N. Y., Pa., Ohio.

2022. *Platymetopius dorsalis* Ball

Ball, Ent. News, xx, p. 164, 1909 (as var. of *frontalis*).

Van Duzee, Ann. Ent. Soc. Am., iii, p. 224, 1910.

Locality: Kans.

2023. *Platymetopius frontalis* Van D.

Van Duzee, Can. Ent., xxii, p. 112, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 193, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 517, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 225, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 71, fig. 10, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 113, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.

Localities: Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Miss.,
Ohio, Tenn., Ill., Mo., Kans., Ia., Calif.

2024. *Platymetopius nasutus* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 64, 1907.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 225, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
 Localities: Colo., Calif. (West Indies.)

2025. *Platymetopius loricatus* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 205, 1894.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 64, 1907; ix, p. 219, 1909.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 226, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
 Localities: Fla., Colo., Calif. (Mexico, Centr. Am.)

2026. *Platymetopius irroratus* Van D.

- Van Duzee, Ann. Ent. Soc. Am., iii, p. 227, 1910.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
 Localities: Ariz., Calif. (Mexico.)

2027. *Platymetopius verecundus* Van D.

- Van Duzee, Ann. Ent. Soc. Am., iii, p. 227, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
 †*obscurus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
 Localities: N. C., Fla.

2027¼. *Platymetopius carolinus* Lthr.

- Lathrop, Ohio Jl. Sci., xvii, p. 123, 1917.
 Locality: S. C.

2027½. *Platymetopius abbreviatus* DeL.

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.
 Locality: Tenn.

2028. *Platymetopius scriptus* Ball

- Ball, Ent. News, xx, p. 165, 1909.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 228, 1910.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 42, 1916.
 Localities: Tenn., Kans.

2029. *Platymetopius magdalensis* Prov.

- Provancher, Pet. Faune Ent. Can., iii, p. 275, 1889.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 113, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 41, 1916.
obscurus Osborn, Ohio Nat., v, p. 274, 1905.
 Osborn, 20th Rept. N. Y. St. Ent., p. 518, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
 Van Duzee, Can. Ent., xl, p. 157, 1909.
 Van Duzee, Ann. Ent. Soc. Am., iii, p. 229, 1910.
 Localities: Quebec, Ont., Me., Mass., N. Y., Pa., Ga., Fla., Ohio,
 Tenn.

2030. *Platymetopius brevis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 66, 1907.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.

a. var. *torridus* Ball

Ball, Ent. News, xxvii, p. 205, 1916.

Localities: Calif. (West Indies.)

2030 $\frac{1}{4}$. *Platymetopius compactus* Ball

Ball, Ent. News, xxvii, p. 176, 1916.

Locality: Calif.

2030 $\frac{1}{2}$. *Platymetopius nigricollis* Ball

Ball, Ent. News, xxvii, p. 205, 1916.

Localities: Utah, Calif.

2031. *Platymetopius fuscifrons* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 206, 1894.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

?DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 41, 1916.

abruptus Ball, Ent. News, xx, p. 165, 1909.

Localities: Tenn.(?), Ariz., Calif.

2031 $\frac{1}{2}$. *Platymetopius bicolor* DeL.

DeLong, Tenn. St. Bd. Ent., Bul., 17, p. 38, 1916.

Locality: Tenn.

Genus *Deltocephalus* Burm.Logotype *pulicarius* (Fall.)

Burmeister, Genera Ins., 1, pl. 14, subgen. 3, 1838.

Flor, Rhyn. Livl., ii, pp. 221, 223, 1861.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.

Kirschbaum, Cicad. v. Wiesbd., pp. 82, 123, 1868.

Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 203, 1869.

Sahlberg, Cicad., pp. 72, 298, 1871.

Fieber, Cicad. d'Eur., i, p. 124, 1875; ii, pl. 13, 1876.

Berg, Hemip. Argent., p. 268, 1879.

Mayr, Tabellen, p. 35, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 42.

Provancher, Pet. Faune Ent. Can., iii, pp. 273, 277, 1889.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

Melichar, Cicad. Mitt. Eur., p. 214, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 144, 1896.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 195, 1897.

Matsumura, Termes. Fuzet., xxv, p. 390, 1902.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 56, 1907.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 380, 1908.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 42, 1916.

2032. *Deltocephalus productus* (Walk.)

Walker, List Homop., iii, p. 891, 1851, *Jassus*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 77, 1898.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.

Localities: Nov. Scot., Me., Mo.

2033. *Deltocephalus bilineatus* G. & B.

Gillette and Baker, Hemip. Colo., p. 85, 1895.

Baker, Psyche, viii, p. 115, 1897.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 200, 1897.

Localities: N. H., Ia., Colo.

2033½. *Deltocephalus luteocephalus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 84, 1917.

Locality: Wis.

2034. *Deltocephalus imputans* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 75, 1898.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 43, 1916.

Localities: Tenn., Ia., Kans.

2035. *Deltocephalus areolatus* Ball

Ball, Can. Ent., xxxi, p. 188, 1899.

Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.

Localities: N. Y., N. J., D. C., Md., N. C., Kans., Ariz.

2036. *Deltocephalus albidus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 201, pl. 23, fig. 1, 1897.

Baker, Psyche, viii, p. 115, 1897.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Localities: Ia., Mo.

[2037, see No. 2042]

2038. *Deltocephalus slossoni* Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 119, 1905.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Locality: Fla.

2039. *Deltocephalus inflatus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 202, pl. 22, fig. 2, 1897.

Baker, Psyche, viii, p. 115, 1898.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Localities: D. C., Fla., Ia., Kans., Colo.

2040. *Deltocephalus flexulosus* Ball

Ball, Can. Ent., xxxi, p. 189, 1899.

Localities: Kans., Colo.

2041. *Deltocephalus sandersi* Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 164, 1907.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 46, 1916.

Localities: Md., Va., Ga., Tenn.

2042. *Deltocephalus pictus* Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 165, 1907.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.

funabulus Crumb, Ann. Ent. Soc. Am., viii, p. 189, 1915.

Van Duzee, Check List Hemip., p. 70, No. 2037, 1916.

Localities: N. Y., Tenn.

2043. *Deltocephalus visendus* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 189, 1915.

Locality: Fla.

2044. *Deltocephalus reflexus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 203, pl. 22, fig. 1, 1897.

Baker, Psyche, viii, p. 115, 1897.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.

Localities: N. C., Tenn., Ia., Kans., Colo.

2045. *Deltocephalus pectinatus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 205, pl. 22, fig. 2, 1897.

Locality: Ia.

2046. *Deltocephalus fraternus* Ball

Ball, Can. Ent., xliii, p. 201, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Deltocephalus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.

Locality: Fla.

2047. *Deltocephalus mendosus* Ball

Ball, Can. Ent., xliii, p. 202, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Locality: Fla.

2048. *Deltocephalus abbreviatus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 206, pl. 22, fig. 4, 1897.

Locality: Ia.

2049. *Deltocephalus stylatus* Ball

Ball, Can. Ent., xxxi, p. 190, 1899.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 45, 1916.

Localities: Tenn., Ia.

2050. *Deltocephalus grammicus* Ball

Ball, Can. Ent., xxxii, p. 204, 1900.

Localities: Neb., Colo.

2051. *Deltocephalus configuratus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1879.

Van Duzee, Can. Ent., xxi, p. 11, 1889.

Slosson, Ent. News, v, p. 5, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.

Gillette and Baker, Hemip. Colo., p. 87, 1895.

- Osborn and Ball, Ia. Agr. College, Exp. Sta. Bul. 34, p. 630, 1897.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 209, pl. 23, fig. 3, 1897.
 Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 80, fig. 16, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.

Localities: Ont., Me., N. H., N. Y., Ohio, Ill., Ia., N. D., S. D.,
 Wyo, Colo., Mont.

2052. *Deltocephalus ocellaris* (Fall.)

- Fallén, Hemip. Suec., Cicad., p. 33, 1826, *Cicada*.
 Flor, Rhyn. Livl., ii, p. 237, 1861, *Jassus*.
 Kirschbaum, Cicad. v. Wiesbd., p. 141, 1868, *Jassus*.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 205, pl. 5, fig. 9, 1869.
 Sahlberg, Cicad., p. 310, 1871.
 Melichar, Cicad. Mitt. Eur., p. 223, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 151, pl. 17, fig. 3, 1896.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 207, 1897.

Localities: Colo. (Europe.)

2053. *Deltocephalus sayi* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus*.
 Walker, List Homop., iv, p. 1158, 1852, *Jassus*.
 Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878.
 Van Duzee, Can. Ent., xxi, p. 11, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 280, 1889.
 Van Duzee, Psyche, v, p. 390, 1890.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
 Southwick, Science, xix, p. 288, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
 Gillette and Baker, Hemip. Colo., p. 88, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 207, pl. 23, fig. 2, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.
 Van Duzee, Can. Ent., xl, p. 158, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 84, fig. 20, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 117, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 46, 1916.

Localities: Quebec, Ont., N. H., Me., Mass., N. Y., N. J., Pa., N. C.,
 Miss., Ohio, Ky., Tenn., Ia., Kans., Mo., Colo., Dak.

2054. *Deltocephalus misellus* Ball

- Ball, Can. Ent., xxxi, p. 191, 1899.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 117, 1915.

Localities: Me., Mo., Colo., Utah.

2055. ***Deltocephalus weedi*** Van D.

- Van Duzee, Trans. Am. Ent. Soc., xix, p. 306, 1892.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 216, pl. 25, fig. 2, 1897.
 Baker, Psyche, viii, p. 116, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn., St. Bd. Ent., Bul. 17, p. 52, 1916.
 Localities: Pa., N. C., Fla., Miss., Ohio, Tenn., Mo., Kans., Ia.

2055¹/₂. ***Deltocephalus interruptus*** DeL.

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916.
 Locality: Tenn.

2056. ***Deltocephalus micarius*** Ball

- Ball, Can. Ent., xliii, p. 203, 1911.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Locality: Fla.

2057. ***Deltocephalus obtectus*** O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 78, 1898.
 Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
 Smith, Cat. Ins. N. J., edu. 3, p. 104, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 53, 1916.
 Localities: Me., Mass., N. Y., N. J., N. C., Fla., Ohio, Tenn., Mo., Ia.

2058. ***Deltocephalus infumatus*** Osb.

- Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
 Locality: Me.

2059. ***Deltocephalus compactus*** O. & B.

- Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 217, pl. 25, fig. 3, 1897.
 Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 52, 1916.
 Localities: N. Y., D. C., N. C., Tenn., Ia., Wash.

2059¹/₂. ***Deltocephalus nigriventer*** S. & D.

- Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 85, 1917.
 Locality: Wis.

2060. ***Deltocephalus vinnulus*** Crmb.

- Crumb, Ann. Ent. Soc. Am., viii, p. 192, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 54, 1916.
 Locality: Tenn.

2061. *Deltocephalus callidus* Ball

Ball, Can. Ent., xxxi, p. 306, 1899.

Locality: Wash.

2062. *Deltocephalus apicatus* Osb.

Osborn, Can. Ent., xxxii, p. 285, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 120, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 50, 1916.

Localities: Me., Vt., Mass., N. Y., N. J., Pa., Md., D. C., Ohio, Tenn.

2062½. *Deltocephalus fumidus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 86, 1917.

Locality: Wis.

2063. *Deltocephalus inimicus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382,

Fitch, Homop., N. Y. St. Cab., p. 61, 1851, *Amblycephalus*.

[*Jassus*.

Walker, List, Homop., iii, p. 895, 1851; iv, p. 1163, 1852, *Jassus*.

Walker, List Homop., iv, p. 1158, 1852, *Tettigonia*.

Forbes, 14th Rept. Ill. St. Ent., pp. 22, 67, 1884, *Jassus*.

Van Duzee, Can. Ent., xxi, p. 11, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 278, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Osborn, Iowa Agr. Exp. Sta., Bul. 13, p. 99, 1891.

Osborn, Iowa St. Agr. Soc., Rept. for 1892, p. 687.

Osborn, Insect Life, v, p. 113, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Southwick, Science, xix, p. 288, 1892.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 45, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 215, pl. 24, fig. 3, 1897.

Baker, Psyche, viii, p. 116, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Can. Ent., xl, p. 158, 1908.

Howard, Insect Book, p. 245, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 72, fig. 11, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 123, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916.

6-punctatus Provancher, Nat. Can., iv, p. 378, 1872, *Jassus*.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Del., Md., Va., N. C., Ohio, Tenn., Mich., Ind., Ill., Ia., Kans., Mo., N. D., S. D., Minn., Colo., Mont., Idaho, Wash.

2064. *Deltocephalus arundineus* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 191, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.

Locality: Tenn.

2065. *Deltocephalus flavicosta* Stål

Stål, Rio. Jan. Hemip., ii, p. 53, 1862.

Baker, Psyche, viii, p. 117, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 67, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

[*harrisi* Fitch MS], in collections.

flavocostatus Van Duzee, Can. Ent., xxiv, p. 116, 1892.

Weed, Can. Ent., xxiv, p. 279, 1892.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 217, 1897.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.

retroversus Uhler, Proc. Zool. Soc. Lond. for 1895, p. 78.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

[*retroversus* Uhl. MS] Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900.

Localities: Conn., N. Y., N. J., Pa., D. C., Md., N. C., Ga., Fla.,
Miss., Tenn., Ia., Mo., Kans. (Neotropical.)

2066. *Deltocephalus signatifrons* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 305, 1892.

Gillette and Baker, Hemip. Colo., p. 89, 1895.

Osborn and Ball, Ia. Agr. College Exp. Sta., Bul. 34, p. 635, 1897.

Osborn, Proc. Ia. Acad. Sci., iv, p. 215, pl. 25, fig. 1, 1897.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.

Localities: Md., Tenn., Ia., Colo.

2067. *Deltocephalus vinculatus* Ball

Ball, Can. Ent., xxxi, p. 191, 1891.

Locality: Colo.

2068. *Deltocephalus cruciatus* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 77, 1898.

Locality: Ia.

2069. *Deltocephalus sexmaculatus* G. & B.

Gillette and Baker, Hemip. Colo., p. 88, 1895.

Baker, Psyche, viii, p. 116, 1897.

Locality: Colo.

2070. *Deltocephalus blandus* Gill.

Gillette, Colo. St. Agr. College Exp. Sta., Bul. 43, p. 26, 1898.

Locality: Colo.

2071. *Deltocephalus debilis* Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 360, 1876.
 Van Duzee, Can. Ent., xxi, p. 11, 1889.
 Van Duzee, Psyche, v, p. 241, 1889.
 Harrington, Ottawa Nat., vi, p. 32, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
 Gillette and Baker, Hemip. Colo., p. 87, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 210, pl. 23, fig. 2, 1897.
 Baker, Psyche, viii, p. 117, 1897.
 Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 121, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.
 † *melsheimeri* Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
 Localities: Ont., Me., N. H., N. Y., Pa., Tenn., Mo., Ia., Colo.

2072. *Deltocephalus abdominalis* (Fabr.)

- Fabricius, Syst. Rhyng., p. 98, 1803, *Cercopis* (n.n. for *bicolor* Fabr.).
 Fallén, Hemip. Suec., Cicad., p. 31, 1826, *Cicada*.
 Zetterstedt, Fauna Lapp., p. 521, 1828, *Cicada*.
 Germar, Fauna Eur., fasc. xvii, p. 19, 1834, *Jassus*.
 Flor, Rhyn. Livl., ii, p. 249, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 129, 1868.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 215, pl. 6, fig. 40, 1869.
 Sahlberg, Cicad., p. 328, 1871.
 Van Duzee, Psyche, v, p. 241, 1889.
 Melichar, Cicad. Mitt. Eur., p. 240, 1896.
 Baker, Psyche, viii, p. 117, 1897.
 Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.
 Van Duzee, Can. Ent., xl, p. 158, 1908.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 121, 1915.
 ‖ *bicolor* Fabricius, Ent. Syst., iv, p. 40, 1794, *Cicada*.
 ‖ *balteata* Zetterstedt, Ins. Lapp., column 290, 1840, *Cicada*.
 † *juvencu* Hardy, Proc. Tyneside Field Club, i, p. 425, 1846(?), *Aphrodes*.
 Localities: Quebec, Ont., Me., N. H., Alaska. (Europe.)

2073. *Deltocephalus pascuellus* (Fall.)

- Fallén, Hemip. Suec., Cicad., p. 32, 1826, *Cicada*.
 Flor, Rhyn. Livl., ii, p. 251, 1861.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 216, 1869.
 Sahlberg, Cicad., p. 325, 1871.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908.
 † *punctipes* Zetterstedt, Ins. Lapp., column 292, 1840, *Cicada*.
 † *fuscognatus* Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 195.
 † *minki* Provancher, Pet. Faune Ent. Can., iii, p. 279, 1889.
 Van Duzee, Ent. Am., vi, p. 96, 1890.
 Baker, Psyche, viii, p. 117, 1897.
 Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

- Slosson, Ent. News, xvii, p. 326, 1906.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
 Localities: Quebec, Ont., Me., N. H., N. Y. (Europe.)

2074. *Deltocephalus parvulus* Gill.

- Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 23, 1898.
 Locality: Colo.

2075. *Deltocephalus melsheimerii* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus*.
 Walker, List Homop., iii, p. 895, 1851, *Jassus*; iv, p. 1152, 1852, *Tettigonia*.
 Baker, Psyche, viii, p. 118, 1897.
 ?Slosson, Ent. News, ix, p. 251, 1898.
 ?Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
 ?Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Van Duzee, Can. Ent., xl, p. 158, 1908; xli, p. 383, 1909.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 119, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 48, 1916.
minus Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 211, pl. 24, fig. 4, 1897.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.
 Localities: Quebec, Ont., Me., N. H., N. Y., Pa., D. C., N. C., Tenn.,
 Ia., Kans., Colo.

2076. *Deltocephalus monticolor* G. & B.

- Gillette and Baker, Hemip. Colo., p. 88, 1895.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897.
 Locality: Colo.

2077. *Deltocephalus collinus* Boh.

- Boheman, Kong. Vet. Akad. Handl. for 1850, p. 261.
 Flor, Rhyn. Livl., ii, p. 257, 1861.
 Kirschbaum, Cicad. v. Wiesbd., p. 135, 1868.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 216, pl. 6, fig. 42, 1869.
 Sahlberg, Cicad., p. 331, 1871.
 Melichar, Cicad. Mitt. Eur., p. 242, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 264, pl. 29, figs. 4, 5, 1896.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 80, 1898.
aridellus Boheman, Kong. Vet. Akad. Handl. for 1850, p. 263.
 Localities: Ia., Colo. (Europe.)

2078. *Deltocephalus ordinatus* Ball

- Ball, Can. Ent., xxxi, p. 307, 1899.
 Locality: Colo.

2078½. *Deltocephalus concinnus* S. & D.

- Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 86, 1917.
 Locality: Wis.

2079. *Deltocephalus affinis* G. & B.

Gillette and Baker, Hemip. Colo., p. 84, 1895.

Baker, Psyche, viii, p. 118, 1897.

Osborn, 20th Rept. N. Y. St. Ent., p. 522, 1905.

Van Duzee, Can. Ent., xl, p. 158, 1908; xli, p. 383, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 82, fig. 18, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

†*melsheimeri* Van Duzee, Psyche, v, p. 390, 1890.

Harrington, Ottawa Nat., vi, p. 32, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.

Gillette and Baker, Hemip. Colo., p. 88, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 211, pl. 24, fig. 1, 1897.

Gillette, Psyche, ix, p. 171, 1901.

†*debilis* Osborn, Ia. Agr. College Exp. Sta., Bul. 13, p. 100, 1891.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 45, 1893.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Ia., Kans., Colo., Calif., Br. Col.

2080. *Deltocephalus unicoloratus* G. & B.

Gillette and Baker, Hemip. Colo., p. 89, 1895.

Baker, Psyche, viii, p. 118, 1897.

§*unicoloratus* Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897.

Locality: Colo.

2081. *Deltocephalus oculatus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 212, pl. 23, fig. 4, 1897.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 48, 1916.

Localities: Tenn., Ia., Colo.

2082. *Deltocephalus littoralis* Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 120, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Localities: N. Y., N. J., Fla.

2083. *Deltocephalus sylvestris* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 213, pl. 25, fig. 4, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 119, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.

Localities: Ont., Me., N. Y., Pa., Md., D. C., N. C., Ohio, Tenn., Ia., Kans., Colo.

2084. *Deltocephalus vicilinus* Crumb.

Crumb, Ann. Ent. Soc. Am., viii, p. 193, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 54, 1916.

Locality: Tenn.

2085. *Deltocephalus lividellus* (Zett.)Zetterstedt, Ins. Lapp., column 290, 1840, *Cicada*.

Sahlberg, Cicad., p. 324, 1871.

Horvath, Ann. Mus. Natl. Hung., vi, pp. 6, 7, 1908.

frigidus Boheman, Kong. Vet. Akad. Handl. for 1845, p. 25.

Flor, Rhyn. Livl., ii, p. 244, 1861.

Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 213, pl. 5, fig. 33, 1869.

Locality: Greenland.

2086. *Deltocephalus cinerosus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 305, 1892.

§*cinereus* Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 214, 1897.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Locality: Calif.

2087. *Deltocephalus bimaculatus* G. & B.

Gillette and Baker, Hemip. Colo., p. 86, 1895.

Baker, Psyche, viii, p. 117, 1897.

Locality: Colo.

2088. *Deltocephalus flavo-virens* G. & B.

Gillette and Baker, Hemip. Colo., p. 87, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettix*.

Baker, Psyche, viii, p. 117, 1897.

Van Duzee, Can. Ent., xl, p. 159, 1908, *Thamnotettix*.

Localities: Quebec, Colo., Calif., Br. Col., Vane. Isl.

2089. *Deltocephalus simplex* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 304, 1892.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettix*.Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910. [*simpler* Van D.).*simplarius* Osborn and Ball, Ohio Nat., ii, p. 249, 1902, *Athysanus*, (n.n. forOsborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus*.

Localities: Mass., N. Y., N. J., Md.

2090. *Deltocephalus osborni* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 304, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Athysanus*.Osborn and Ball, Ohio Nat., ii, p. 249, pl. 17, fig. 4, 1902, *Athysanus*.Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus*.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 58, 1907.

Localities: N. Y., Ind., Neb., Ia., Colo.

2090½. *Deltocephalus escalantus* (Ball)Ball, Ent. News, xxvii, p. 175, 1916, *Athysanus*.

Locality: Utah.

2091. *Deltocephalus auratus* G. & B.

Gillette and Baker, Hemip. Colo., p. 85, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 214, 1897.

Locality: Colo.

2092. *Deltocephalus paludosus* Ball

Ball, Can. Ent., xxxi, p. 307, 1899.

Locality: Colo.

2093. *Deltocephalus obesus* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 81, 1898.

Localities: Texas, Ariz. (Mexico.)

2094. *Deltocephalus satur* Ball

Ball, Can. Ent., xxxi, p. 309, 1899.

Locality: Colo.

2095. *Deltocephalus castoreus* Ball

Ball, Can. Ent., xxxi, p. 308, 1899.

Locality: Colo.

2096. *Deltocephalus caperatus* Ball

Ball, Can. Ent., xxxii, p. 343, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.

Localities: Fla.(?) Ia., Neb., Colo.

2097. *Deltocephalus balli* Van D.Van Duzee, Check List Hemip., p. 71, 1916 (n.n. for *nigrifrons* Van D.).†*nigrifrons* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 293, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 218, 1897.

Baker, Psyche, viii, p. 116, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 68, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 50, 1916.

Localities: Me., N. Y., N. J., Pa., N. C., Tenn., Mo., Ia., Kans.

2098. *Deltocephalus fuscineruosus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 207, 1894.

Baker, Psyche, viii, p. 116, 1897.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 80, fig. 15, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Localities: Colo., Calif.

2099. *Deltocephalus punctatus* (O. & B.)Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 94, 1898, *Athysanus*.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

Localities: Ia., Colo., Calif.

2100. *Deltocephalus vanduzei* G. & B.

Gillette and Baker, Hemip. Colo., p. 90, 1895.

Baker, Psyche, viii, p. 116, 1897.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

artemesiae Gillette and Baker, Hemip. Colo., p. 91, 1895, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 256, 1902 (genus?).

Localities: Colo., Calif.

2101. *Deltocephalus sonorus* Ball

Ball, Can. Ent., xxxii, p. 344, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 79, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

Localities: Fla., Texas, Ariz.

2102. *Deltocephalus gnarus* Ball

Ball, Can. Ent., xxxii, p. 345, 1900.

Locality: Ia.

2103. *Deltocephalus evansi* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.

Locality: Alaska.

2104. *Deltocephalus harrimani* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 83, 1912 (= *affinis?*).

Locality: Alaska.

2105. *Deltocephalus concentricus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 208, 1894.

Gillette and Baker, Hemip. Colo., p. 87, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1907, *Thamnotettix*.

Baker, Psyche, viii, p. 115, 1897. [*tettix*.

flavomarginatus Gillette and Baker, Hemip. Colo., p. 96, 1895, *Thamno-*

Baker, Psyche, viii, p. 115, 1897.

Localities: Colo., Calif.

2106. *Deltocephalus cookei* Gill.

Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 24, 1898.

Locality: Colo.

Genus *Lonatura* O. & B.

Logotype *catalina* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, 1898.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 62, 1907.

2107. *Lonatura catalina* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, pl. 4, fig. 2, 1898.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.

Localities: Tenn., Ia., S. D.

2108. *Lonatura minuta* (Van D.)

- Van Duzee, Ent. Am., vi, p. 96, 1890, *Deltoccephalus*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Doratura*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, 1898.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
 Locality: Calif.

2109. *Lonatura megalopa* O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 85, pl. 4, fig. 1, 1898.
 Locality: Ia.

2110. *Lonatura salsura* Ball

- Ball, Can. Ent., xxxi, p. 310, 1899.
 Locality: Colo.

2111. *Lonatura bicolor* Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.
 Locality: Fla.

2112. *Lonatura noctivaga* Ball

- Ball, Can. Ent., xxxii, p. 342, 1900.
 Localities: Neb., Colo.

2113. *Lonatura nebulosa* Ball

- Ball, Can. Ent., xxxii, p. 341, 1900.
 Locality: Colo.

DIVISION *EUSCELIDARIA* Van D.

- Van Duzee, Check List Hemip., p. 71, 1916 (n.n. for *Athysanini* Van D.).
Athysanini Van Duzee, Trans. Am. Ent. Soc., xix, p. 288, 1892. (Tribe.)
 Distant, Fauna Brit. Ind., Rhyn., iv, pp. 343, 351, 1908.
 Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 47, 1909. [1907. (Tribe.)]
Phyrnomorphusaria Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 24, 39,
Thamnotettixaria Distant, Fauna Brit. Ind., Rhyn., iv, p. 343, 1908.

Genus *Aconura* Leth.Logotype *jakolevi* Leth.

- Lethierry, Compt. Rend. Soc. Ent. Belg., xix, p. lxxxv, 1876.
 Melichar, Cicad. Mitt. Eur., p. 302, 1896.
 Matsumura, Termes. Fuzet., xxv, p. 385, 1902.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 378, 1908.
Athysanella Baker, Psyche, viii, p. 185, 1898 (type *magdalena* Bak.).

2114. *Aconura attenuata* (Bak.)

- Baker, Psyche, viii, p. 188, 1898, *Athysanella*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
 Locality: Colo.

2115. *Aconura magdalena* (Bak.)

- Baker, Psyche, viii, p. 185, 1898, *Athysanella*.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
 Localities: Colo., N. Mex.

2116. *Aconura occidentalis* (Bak.)Baker, Psyche, viii, p. 186, 1898, *Athysanella*.

Locality: Colo.

2117. *Aconura acuticauda* (Bak.)Baker, Psyche, viii, p. 187, 1898, *Athysanella*.Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Athysanella*.Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanella*.Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915, *Athysanella*.

Localities: Ont., Me., N. H., N. Y., Ill., Colo.

2118. *Aconura robusta* (Bak.)Baker, Psyche, viii, p. 187, 1898, *Athysanella*.

Locality: Colo.

2119. *Aconura incongrua* (Bak.)Baker, Psyche, viii, p. 188, 1898, *Athysanella*.

Locality: Colo.

2120. *Aconura minuta* (Bak.)Baker, Psyche, viii, p. 189, 1898, *Athysanella*.

Locality: Colo.

2121. *Aconura argenteolus* (Uhler)Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 473, 1877, *Deltocephalus*.Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Deltocephalus*; p. 232,Baker, Psyche, viii, p. 119, 1897, *Deltocephalus*. [1897, *Doratura*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.

Locality: Colo.

2122. *Aconura labiata* (Gill.)Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 26, 1898, *Deltocephalus*.a. var. *rufa* (Gill.)Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 28, 1898, *Deltocephalus*.

Locality: Colo.

2123. *Aconura atropuncta* (Gill.)Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 28, 1898, *Deltocephalus*.

Locality: Colo.

Genus *Nephotettix* Mats.Logotype *apicalis* Motsch.

Matsumura, Termes. Fuzet., xxv, p. 378, 1902.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 359, 1908.

2124. *Nephotettix terebrans* (G. & B.)Gillette and Baker, Hemip. Colo., p. 102, 1895, *Eutettix*.Baker, Psyche, viii, p. 119, 1897, *Athysanus*; p. 185, 1898, *Athysanella*.

Matsumura, Termes. Fuzet., xxv, p. 379, 1902.

Locality: Colo.

2125. *Nephotettix curtipennis* (G. & B.)Gillette and Baker, Hemip. Colo., p. 92, 1898, *Athysanus*.Baker, Psyche, viii, p. 119, 1897, *Athysanus*; p. 185, 1898, *Athysanella*.

Locality: Colo.

Genus **Driotura** O. & B.Logotype *gammaroides* Van D.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 87, 1898.
 Osborn and Ball, Ohio Nat., ii, p. 256, 1902 (names *gammaroides* type).
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 58, 1907.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 596, 1911.
 Oshanin, Kat. Palae. Hemip., p. 104, 1912 (names *robusta* pseudotype).

2126. **Driotura gammaroides** (Van D.)

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 209, 1894, *Athysanus*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 314, 1894, *Athysanus*.
 Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 89, pl. 4, fig. 3, 1898.
 Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908, *Anotrostemma*.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 596, 1911.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916.

a. var. **flava** O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 90, 1898.

b. var. **fulva** Ball

- Ball, Can. Ent., xxxv, p. 231, 1903.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916 (spelled *fulvo*).
 Localities: Mass., N. Y., D. C., N. C., Tenn., Ia., Kans., Colo., Wyo., Utah.

2127. **Driotura robusta** O. & B.

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 87, pl. 4, fig. 4, 1898.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916.

a. var. **vittata** Ball

- Ball, Can. Ent., xxxv, p. 231, 1903.
 Localities: N. C., Tenn., Ia., Colo.

2128. **Driotura ornata** (Gill.)

- Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 29, 1898, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 256, 1902.
 Locality: Colo.

Genus **Euscelis** Brul.Haplotype *lineolatus* Brul.

- Brullé, Exped. Sci. Morée, iii, p. 109(?), 1832.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 9, 1908.
 Van Duzee, Can. Ent., xlv, p. 389, 1914.
 Van Duzee, Check List Hemip., p. 71, 1916. [= *lineolatus* Brul.].
Phrynomorphus Curtis, Ent. Mag., i, p. 194, 1833 (haplotype *nitidus* Curt.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names
nitidus type).
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 325, 1906; iii, p. 59, 1907.
Athysanus Burmeister, Genera Ins., i, pl. 14, 1838.

- Amyot and Serville, Hémip., p. 587, 1843.
 Kirschbaum, Die Athysanus Arten, p. 3, 1858.
 Flor, Rhyn. Livl., ii, p. 267, 1861.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.
 Kirschbaum, Cicad. v. Wiesbdl., pp. 81, 102, 1868.
 Sahlberg, Cicad., pp. 71, 260, 1871. [meister made *argentatus* type].
 Scott, Ent. Mo. Mag., xii, p. 93, 1875 (states erroneously that Bur-
 Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.
 Berg, Hemip. Argent., p. 265, 1879.
 Mayr, Tabellen, p. 33, 1884.
 Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 35.
 Provancher, Pet. Faune Ent. Can., iii, p. 281, 1889.
 Van Duzee, Psyche, vi, p. 307, 1892.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
 Van Duzee, Can. Ent., xxv, p. 285, 1893.
 Melichar, Cicad. Mitt. Eur., p. 257, 1896.
 Matsumura, Termes. Fuzet., xxv, p. 372, 1902.
 Osborn and Ball, Ohio Nat., ii, p. 231, 1902 (names *argentatus* type).
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 343, 1908 (cites *argentatus* as
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 60, 1916. [type].
Opsius Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.

Subgenus **Athysanus** Burm.

Logotype *argentatus* Fabr.

- Osborn and Ball, Ohio Nat., ii, p. 232, 1902.
 Van Duzee, Can. Ent., xlv, p. 389, 1915.
Limotettix Sahlberg, Cicad., p. 224, 1871.
 Van Duzee, Psyche, vi, p. 306, 1892 (type *striola* Fall.?).
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892; xxi, p. 303, 1894.

2129. **Euscelis magnus** O. & B.

- Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 225, pl. 26, fig. 2, 1897, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 273, 1902, *Athysanus*.

Localities: La., Texas, Ia., Neb., Kans., Colo., Wyo., S. D., Minn.

2130. **Euscelis frigidus** Ball

- Ball, Ent. News, x, p. 172, 1899, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 233, 1902, *Athysanus*.
 Locality: Colo.

2131. **Euscelis exitiosus** (Uhler)

- Uhler, Am. Ent., iii, p. 72, 1880, *Cicadula*.
 Uhler, U. S. Dept. Agr., Rept. for 1879, p. 191, 1880, *Cicadula*.
 Uhler, Stand. Nat. Hist., ii, p. 245, 1884, *Cicadula*.
 Van Duzee, Psyche, v, p. 306, 1892, *Limotettix*.
 Osborn, Iowa St. Agr. Soc., Rept. for 1892, p. 688, *Cicadula*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Cicadula*.
 Van Duzee, Trans. Am. Ent. Soc., xxi, p. 304, 1894, *Limotettix*.
 Gillette and Baker, Hemip. Colo., p. 100, 1895, *Entettix*.
 Osborn and Ball, Ohio Nat., ii, p. 234, pl. 16, fig. 2, 1902, *Limotettix*.
 Wirtner, Ann. Carn. Mus., iii, p. 222, 1904, *Athysanus*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 68, 1907, *Athysanus*.

- Van Duzee, Can. Ent., xli, p. 128, 1909, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 86, fig. 21, 1912, *Athysanus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phrynomorphus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914, *Athysanus*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 60, 1916, *Athysanus*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
 Localities: N. Y., N. J., Pa., Md., D. C., N. C., S. C., Ga., Fla.,
 Miss., Ohio, Tenn., Ind., Ia., Mo., Kans., Colo., Okla., Texas,
 Ariz., Calif. (West Indies, Bermudas.)

2132. *Euscelis striolus* (Fall.)

- Fallén, Acta Holm., xxvii, p. 31, 1806, *Cicada*.
 Flor, Rhyn. Livl., ii, p. 315, 1861, *Jassus*.
 Kirschbaum, Cicad. v. Wiesbd., p. 87, 1868, *Jassus*.
 Sahlberg, Cicad., p. 226, 1871, *Limotettix*.
 Fieber, Kat. Eur. Cicad., p. 12, 1872, *Athysanus*.
 Edwards, Trans. Ent. Soc. Lond. for 1888, p. 71, *Limotettix*.
 Van Duzee, Can. Ent., xxi, p. 11, 1889; xxiii, p. 171, 1891, *Athysanus*.
 Van Duzee, Psyche, vi, p. 306, 1892, *Limotettix*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894, *Limotettix*.
 Melichar, Cicad. Mitt. Eur., p. 264, 1896, *Athysanus*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 4, 1898, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 235, 1902, *Athysanus*.
 Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914, *Athysanus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915, *Athysanus*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
frenatus Germar, Mag. d. Ent., iv, p. 86, 1821, *Jassus*.
 Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Ohio, Ill., Ia., Colo.,
 Calif., Vane. Isd.

2133. *Euscelis paralellus* (Van D.)

- Van Duzee, Can. Ent., xxiii, p. 169, 1891, *Athysanus*.
 Van Duzee, Psyche, vi, p. 306, 1892, *Limotettix*.
 Osborn and Ball, Ohio Nat., ii, p. 235, 1902, *Athysanus*.
 Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Localities: Quebec, Ont., N. J., Ia., Colo.

Subgenus *Euscelis* Brullé

- Van Duzee, Can. Ent., xlv, p. 389, 1915.
Athysanus Sec. 1, Van Duzee, Psyche, vi, p. 307, 1892.
Athysanus Sec. A, Van Duzee, Can. Ent., xxv, p. 285, 1893.
Conosanus Osborn and Ball, Ohio Nat., ii, p. 236, 1902.

2134. *Euscelis extrusus* (Van D.)

- Van Duzee, Can. Ent., xxv, p. 283, 1893, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus*.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 92, pl. 6, fig. 1, 1898, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 237, 1902, *Athysanus*.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 127, 1915, *Athysanus*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 61, 1916, *Athysanus*.

venosus Osborn, 20th Rept. N. Y. St. Ent., p. 526, 1905, *Athysanus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.

Localities: Ont., Me., N. H., Conn., N. Y., N. J., Pa., Tenn., Mich.,
Ia., Kans., Colo.

2135. *Euscelis alpinus* (Ball)

Ball, Ent. News, x, p. 173, 1899, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 238, 1902, *Athysanus*.

Localities: N. H., Colo.

2136. *Euscelis relativus* (G. & B.)

Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Athysanus*.

Van Duzee, Can. Ent., xlv, p. 328, 1912, *Athysanus*.

†*obsoletus* Provancher, Pet. Faune Ent. Can., iii, p. 281, 1889, *Athysanus*.

Van Duzee, Psyche, vi, p. 307, 1892, *Athysanus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Athysanus*.

Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus*.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 295, 1894, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 239, 1902, *Athysanus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 526, 1905, *Athysanus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 127, 1915, *Athysanus*.

Localities: Ont., Me., R. I., N. Y., Ill., Ia., Colo., Vanc. Isd.

2136½. *Euscelis shastus* (Ball)

Bail, Ent. News, xxvii, p. 174, 1916, *Athysanus*.

Locality: Calif.

2136¾. *Euscelis deceptus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 87, 1917.

Localities: Me., Ill., Wis.

2137. *Euscelis varus* (Ball)

Ball, Can. Ent., xxxiii, p. 5, 1901, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 239, 1902, *Athysanus*.

Locality: Colo.

2138. *Euscelis uhleri* (Ball)

Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus*.

Van Duzee, Can. Ent., xlv, p. 328, 1912, *Athysanus*.

†*platonius* Provancher, Pet. Faune Ent. Can., iii, p. 282, 1889, *Athysanus*.

Harrington, Ottawa Nat., vi, p. 32, 1892, *Athysanus*.

Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus*.

- Osborn and Ball, Ohio Nat., ii, p. 240, pl. 16, fig. 3, 1902, *Athysanus*.
 Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 126, 1915, *Athysanus*.
 Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Ia., S. D.,
 Neb., Kans., Mo.

2139. **Euscelis anthracinus** (Van D.)

- Van Duzee, Can. Ent., xxvi, p. 136, 1894, *Athysanus*.
 Gillette and Baker, Hemip. Colo., p. 91, 1895, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 241, 1902, *Athysanus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 126, 1915, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 61, 1916, *Athysanus*.
 [*Schleroracis anthracinus* Uhler MS in litt.] [Conogonus.
 [gagates Ashmead, MS] Osborn, Proc. Ia. Acad., Sci., i, pt. 2, p. 126, 1892,
 Localities: Me., Mass., N. Y., N. J., D. C., Tenn., Ia., Kans., Colo.

2140. **Euscelis viriosus** (Ball)

- Ball, Can. Ent., xlii, p. 266, 1910, *Thamnotettix*.
 Van Duzee, Check List Hemip., p. 72, 1916.
 Locality: Calif.

2141. **Euscelis symphoricarpae** (Ball)

- Ball, Can. Ent., xxxiii, p. 5, 1901, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 241, pl. 16, fig. 4, 1902, *Athysanus*.
 Localities: Mass., Colo

2141½. **Euscelis clavatus** (Ball)

- Ball, Ent. News, xxvii, p. 173, 1916, *Athysanus*.
 Locality: Utah.

2142. **Euscelis arctostaphyli** (Ball)

- Ball, Ent. News, x, p. 172, 1899, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 243, pl. 16, fig. 5, 1902, *Athysanus*.
 Slosson, Ent. News, xiii, p. 321, 1902, *Athysanus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 129, 1915, *Athysanus*.
 Localities: Quebec, Me., N. H., N. Y., Colo.

2143. **Euscelis humidus** (Osb.)

- Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 131, 1915, *Athysanus*.
 Locality: Me.

2144. **Euscelis striatulus** (Fall.)

- Fallén, Hemip. Suec., Cicad., p. 45, 1826, *Cicada*.
 Flor, Rhyn. Livl., ii, p. 361, 1861, *Jassus*.
 Sahlberg, Cicad., p. 253, 1871, *Limotettix*.
 Melichar, Cicad. Mitt. Eur., p. 264, 1896, *Athysanus*.

Edwards, Hemip. Homop. Brit. Isds., p. 172, pl. 19, fig. 9, 1896, *Thamnotettix*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 3, 1898, *Athysanus*.
plutonium Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 470, 1877, *Jassus*.

Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus*.

†*vaccinii* Osborn and Ball, Ohio Nat., ii, p. 242, 1902, *Athysanus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 130, 1915, *Athysanus*.

Localities: Ont., Me., Mass., R. I., N. Y., N. J., Md., Ia., Kans.,
 Colo. (Europe.)

2145. *Euscelis vaccinii* (Van D.)

Van Duzee, Ent. Am., vi, p. 135, 1890, *Athysanus* (*striatulus* or *vaccinii*).

Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus*.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus*.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa.

[Probably not distinct from preceding.]

2146. *Euscelis instabilis* (Van D.)

Van Duzee, Can. Ent., xxv, p. 284, 1893, *Athysanus*.

Van Duzee, Mich. Agr. Exp. Sta., Bul. 102, p. 8, 1894, *Athysanus*.

Van Duzee, Exp. Sta. Record, v, p. 791, 1894, *Athysanus* (reprint of preceding).

Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus*.

Van Duzee, Can. Ent., xl, p. 158, 1908, *Athysanus*.

†*striatulus* Osborn and Ball, Ohio Nat., ii, p. 242, 1902, *Athysanus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 128, 1915, *Athysanus*.

Localities: Quebec, Ont., Mich., Colo., Br. Col.

2147. *Euscelis angustatus* (Osh.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 130, 1915, *Athysanus*.

Localities: Me., N. Y.

2148. *Euscelis elongatus* (Osh.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 129, 1915, *Athysanus*.

†*striatulus* Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus*.

Athysanus sp., Van. Duzee, Can. Ent., xl, p. 158, 1908.

Localities: Quebec, Ont., Me., Ore.(?).

2149. *Euscelis dentatus* (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 95, 1898, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 244, pl. 17, fig. 5, 1902, *Athysanus*.

Locality: Colo.

2150. *Euscelis acuminatus* (Bak.)

Baker, Psyche, vii, Suppl., i, p. 25, 1896, *Athysanus*.

Osborn and Ball, Ohio Nat., ii, p. 256, 1902, *Athysanus*.

Locality: N. Mex.

Subgenus *Conomellus* O. & B.

Orthotype *comma* (Van D.)

Osborn and Ball, Ohio Nat., ii, p. 245, 1902.

Van Duzee, Can. Ent., xli, p. 389, 1915.

2151. **Euscelis comma** (Van D.)

- Van Duzee, Can. Ent., xxiv, p. 114, 1892, *Athysanus*.
 Gillette and Baker, Hemip. Colo., p. 92, 1895, *Athysanus*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 223, 1897, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 246, pl. 17, fig. 1, 1902, *Athysanus*.
 Slosson, Ent. News, xiii, p. 321, 1902, *Athysanus*.
 Localities: N. H., Ia., Neb., Kans., Colo.

2152. **Euscelis colon** (O. & B.)

- Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 223, pl. 26, fig. 3, 1897, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 247, pl. 17, fig. 2, 1902, *Athysanus*.
 Localities: Ia., Minn.

2153. **Euscelis sexvittatus** (Van D.)

- Van Duzee, Can. Ent., xxvi, p. 93, 1894, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 247, pl. 17, fig. 3, 1902, *Athysanus*.
 Locality: Colo.

2153½. **Euscelis lassus** (Ball)

- Ball, Ent. News, xxvii, p. 175, 1916, *Athysanus*.
 Locality: Calif.

2154. **Euscelis texanus** (O. & B.)

- Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 92, 1898, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 248, 1898, *Athysanus*.
 Localities: Ia., Texas.

2155. **Euscelis estacadus** (Ball)

- Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus*.
 Localities: Tenn., Texas.

Subgenus **Stirellus** O. & B.Orthotype *bicolor* (Van D.)

- Osborn and Ball, Ohio Nat., ii, p. 250, 1902.
 Van Duzee, Can. Ent., xlvi, p. 389, 1915.
Athysanus Sec. 2, Van Duzee, Psyche, vi, p. 307, 1892.
Athysanus Sec. B, Van Duzee, Can. Ent., xxv, p. 285, 1893.

2156. **Euscelis curtisii** (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus*.
 Walker, List Homop., iv, p. 1159, 1852; Suppl., p. 348, 1858, *Tettigonia*.
 Provancher, Pet. Faune Ent. Can., iii, p. 278, 1889, *Deltocephalus*.
 Van Duzee, Psyche, v, p. 290, 1890, *Athysanus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Athysanus*.
 Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Athysanus*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 1, 1898, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 251, 1902, *Athysanus*.
 Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Athysanus*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus*.

- Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Van Duzee, Can. Ent., xlv, p. 328, 1912, *Athysanus*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 91, fig. 22, 1912, *Athysanus*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 125, 1915, *Athysanus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus*.
neratus Provancher, Nat. Can., iv, p. 378, 1872, *Jassus*.
 Localities: Quebec, Ont., Me., N. H., Vt., N. Y., N. J., Pa., Ohio,
 Tenn., Mich., Ia., Mo.

2157. *Euscelis bicolor* (Van D.)

- Van Duzee, Can. Ent., xxiv, p. 114, 1892, *Athysanus*.
 Weed, Can. Ent., xxiv, p. 279, 1892, *Athysanus*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 222, 1897, *Athysanus*.
 Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 2, 1897, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 251, 1902, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 222, 1909, *Athysanus*.
 Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 92, fig. 23, 1912, *Athysanus*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phrynomorphus*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus*.
virgulatus Uhler, Proc. Zool. Soc. Lond. for 1895, p. 78, *Deltocephalus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Deltocephalus*.
 Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900, *Deltocephalus*.
 Localities: N. J., D. C., Va., N. C., Ga., Fla., Miss., Ohio, Mich.,
 Tenn., Ill., Ia., Neb., Kans. (Neotropical.)

2158. *Euscelis obtutus* (Van D.)

- Van Duzee, Can. Ent., xxiv, p. 115, 1892, *Athysanus* (misprinted *obtus*).
 Van Duzee, Can. Ent., xxiv, p. 156, 1892, *Athysanus* (spelling corrected).
 Weed, Can. Ent., xxiv, p. 279, 1892, *Athysanus*.
 Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 222, pl. 21, fig. 2, 1897, *Athysanus*.
 Osborn and Ball, Ohio Nat., ii, p. 252, 1902, *Athysanus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 222, 1909, *Athysanus*.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 93, fig. 24, 1912, *Athysanus*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 63, 1916, *Athysanus*. [morphus.
gobtus Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phryno*-
 Localities: Md., D. C., N. C., S. C., Ga., Fla., Miss., Tenn., Ia.,
 Kans., Mo.

[*Euscelis ignotus* (Baker) MS]

- Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900, *Athysanus*.
 Locality: N. J.

2159. *Euscelis villicus* (Crm.)

- Crm., Ann. Ent. Soc. Am., viii, p. 194, 1915, *Athysanus*.
 Locality: Tenn.

Genus **Eutettix** Van D.Orthotype *lurida* (Van D.)Van Duzee, *Psyche*, vi, p. 307, 1892.Van Duzee, *Trans. Am. Ent. Soc.*, xix, p. 300, 1892.Matsumura, *Termes Fuzet.*, xxv, p. 380, 1902.Kirkaldy, *Haw. S. P. A., Exp. Sta. Bul.*, i, p. 331, 1906; iii, p. 53, 1907.Ball, *Proc. Dav. Acad. Sci.*, xii, p. 27, 1907 (monograph).Distant, *Fauna Brit. Ind. Rhyn.*, iv, pp. 351, 362, 1908.Van Duzee, *Can. Ent.*, xli, p. 384, 1909 (citing *lurida* as type).DeLong, *Tenn. St. Bd. Ent., Bul.* 17, p. 65, 1916.2160. **Eutettix luridus** (Van D.)Van Duzee, *Can. Ent.*, xxii, p. 250, 1890, *Thamnotettix*.Van Duzee, *Psyche*, vi, p. 307, 1892.

Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.

Ball, *Proc. Dav. Acad. Sci.*, xii, p. 36, pl. i, fig. 4, 1907.Smith, *Cat. Ins. N. J.*, edn. 3, p. 104, 1910.Barber, *Bul. Am. Mus. Nat. Hist.*, xxxiii, p. 534, 1914.

Localities: N. H., N. Y., N. J., Md., D. C., Ga., Fla., Mich., Ia.

2161. **Eutettix marmoratus** Van D.Van Duzee, *Trans. Am. Ent. Soc.*, xix, p. 302, 1892.Ball, *Proc. Dav. Acad. Sci.*, xii, p. 35, 1907.Smith, *Cat. Ins. N. J.*, edn. 3, p. 104, 1910.DeLong, *Tenn. St. Bd. Ent., Bul.* 17, p. 66, 1916.*incerta* Gillette and Baker, *Hemip. Colo.*, p. 100, 1895.Tucker, *Kans. Univ. Sci. Bul.*, iv, p. 67, 1907.

Localities: Mass., N. Y., N. J., D. C., N. C., Fla., Ohio, Tenn., N. D., Colo.

2162. **Eutettix southwicki** (Van D.)Van Duzee, *Bul. Buf. Soc. Nat. Sci.*, v, p. 209, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.

Ball, *Proc. Dav. Acad. Sci.*, xii, p. 36, pl. 1, fig. 3, 1907.Smith, *Cat. Ins. N. J.*, edn. 3, p. 104, 1910.*brunneus* Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.

Localities: N. Y., N. J., Md., D. C., Ia., Colo.(?).

2163. **Eutettix subaeneus** (Van D.)Van Duzee, *Ent. Am.*, vi, p. 77, 1890, *Thamnotettix*.Van Duzee, *Psyche*, vi, p. 307, 1892, *Thamnotettix*.Van Duzee, *Trans. Am. Ent. Soc.*, xix, p. 303, 1892.Ball, *Proc. Dav. Acad. Sci.*, xii, p. 37, pl. 1, fig. 5, 1907.Van Duzee, *Trans. San Diego Soc. Nat. Hist.*, ii, p. 54, 1914.?Osborn, *Me. Agr. Exp. Sta.*, *Bul.* 238, p. 139, 1915.?Metcalf, *Jl. Elisha Mitchell Sci. Soc.*, xxxi, p. 22, 1915.?DeLong, *Tenn. St. Bd. Ent., Bul.* 17, p. 66, 1916.

Localities: Me.(?), N. C.(?), Tenn.(?), Colo., Calif.

2164. **Eutettix querci** G. & B.Gillette and Baker, *Hemip. Colo.*, p. 101, 1895.Ball, *Proc. Dav. Acad. Sci.*, xii, p. 37, pl. 1, fig. 5, 1907.

Localities: D. C.(?), Colo., Utah.

2165. *Eutettix tristis* Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 34, pl. 1, fig. 2, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Localities: N. J., Md., D. C., Ga., Fla.

2166. *Eutettix bartschi* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 223, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Locality: Fla.

2167. *Eutettix pictus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 301, 1892.

Ball, Proc. Dav. Acad. Sci., xii, p. 34, pl. 1, fig. 1, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 65, 1916.

magnus Osborn, Ent. News, xi, p. 395, 1900.

Localities: Pa., N. J., Md., D. C., Fla., Tenn., Ind., Ark.

2168. *Eutettix slossoni* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 210, 1894; ix, p. 222, 1908.

Ball, Proc. Dav. Acad. Sci., xii, p. 35, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Localities: Mass., N. J., D. C., Fla., Texas.

2169. *Eutettix nitens* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 223, 1909.

Locality: Fla.

2170. *Eutettix johnsoni* Van D.

Van Duzee, Can. Ent., xxvi, p. 137, 1894.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.

Ball, Proc. Dav. Acad. Sci., xii, p. 66, pl. 3, fig. 8, 1907, *Mesamia*.

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.

Localities: Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., N. C.,
Ohio, Tenn., Ia.

2171. *Eutettix animanus* Ball

Ball, Can. Ent., xli, p. 81, 1909, *Mesamia*.

Locality: Colo.

2172. *Eutettix auratus* Ball

Ball, Can. Ent., xli, p. 81, 1909, *Mesamia*.

Locality: D. C.

2173. *Eutettix clarivida* Van D.

Van Duzee, Can. Ent., xxvi, p. 138, 1894.

Gillette and Baker, Hemip. Colo., p. 100, 1895.

Ball, Proc. Dav. Acad. Sci., xii, p. 38, pl. 1, fig. 6, 1907.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Localities: Mo., Colo., Utah.

2174. *Eutettix osborni* Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 39, pl. 1, fig. 7, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Localities: Mo., Texas, Calif.

2175. *Eutettix insanus* Ball

Ball, Can. Ent., xxxii, p. 203, 1900.

Ball, Proc. Dav. Acad. Sci., xii, p. 39, pl. 1, fig. 8, 1907.

a. var. coronatus Ball.

Ball, Can. Ent., xlviii, p. 127, 1916.

Localities: Colo., Utah, Calif.

2176. *Eutettix pauperculus* (Ball)

Ball, Can. Ent., xxxv, p. 228, 1903, *Phlepsius*.

Ball, Proc. Dav. Acad. Sci., xii, p. 40, pl. 1, fig. 9, 1907.

Localities: Colo., Utah.

2177. *Eutettix strictus* Ball

Ball, Can. Ent., xxxii, p. 204, 1900.

Ball, Proc. Dav. Acad. Sci., xii, p. 41, pl. 1, fig. 10, 1907.

Localities: Colo., Texas, Ariz. (Mexico.)

2178. *Eutettix tenellus* (Bak.)

Gillette and Baker, Hemip. Colo., p. 100, 1895, *Thamnotettix* (a MS name).

Baker, Psyche, vii, Suppl., p. 24, 1896, *Thamnotettix*.

Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 35, pl. 1, fig. 1, 1904.

Ball, Proc. Dav. Acad. Sci., xii, p. 41, pl. 1, fig. 11, pl. 4, figs. 4, 5, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Essig, Inj. Benif. Ins. Calif., edn. 2, p. 64, 1915.

Localities: Colo., Utah, N. Mex., Ariz., Calif.

2179. *Eutettix seminudus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 307, 1831; Compl. Writ., ii, p. 383, *Jassus*.

Harris in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus*.

Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus*.

Dimmock, Psyche, iv, p. 241, 18—, *Bythoscopus*.

Uhler, Stand. Nat. Hist., ii, p. 246, 1884, *Thamnotettix*.

Provancher, Pet. Faune Ent. Can., iii, p. 285, 1889, *Thamnotettix*.

Van Duzee, Psyche, v, p. 389, 1890, *Athysanus*.

Packard, 5th Rept. U. S. Ent. Comm., p. 513, 1890, *Bythoscopus*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Thamnotettix*.

Van Duzee, Psyche, vi, p. 307, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905.

Ball, Proc. Dav. Acad. Sci., xii, p. 42, pl. 2, fig. 1, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 66, 1916.

Localities: Quebec, Ont., Mass., Conn., N. Y., Pa., Md., D. C., N. C.,
Miss., Ohio, Tenn., Ind., Ill., Ia., Mo., Kans., Texas.

2180. *Eutettix cinctus* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 97, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.

Ball, Proc. Dav. Acad. Sci., xii, p. 64, pl. 4, fig. 1, 1907, *Mesamia*.

Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910, *Mesamia*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.

†*jucunda* Van Duzee, Psyche, vi, p. 307, 1892.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 297, 1894.

Localities: N. Y., N. J., Pa., Md., D. C., Miss., Tenn., Ia., Colo., Texas.

2181. *Eutettix strobi* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus*.

Walker, List Homop., iii, p. 876, 1851, *Bythoscopus*.

Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857, *Bythoscopus*.

Rathvon in Mombert, Hist. Lane. Co., Pa., p. 551, 1869, *Bythoscopus*.

Packard, 5th Rept. U. S. Ent. Comm., p. 802, 1890, *Bythoscopus*.

Van Duzee, Psyche, v, p. 390, 1890, *Phlepsius*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 67, 1892; xxi, p. 299, 1894, *Phlepsius*.

Baker, Psyche, vii, Suppl., i, p. 24, 1896.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.

Ball, Proc. Dav. Acad. Sci., xii, p. 44, pl. 2, fig. 2, pl. 4, fig. 3, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 49, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.

Localities: Ont., Me., Mass., Conn., N. Y., N. J., Pa., D. C., N. C., Ohio, Tenn., Mo., Ia., Neb., Kans., Colo., Utah, Texas.

2182. *Eutettix scitulus* Ball

Ball, Can. Ent., xxxiii, p. 47, 1901.

Ball, Proc. Dav. Acad. Sci., xii, p. 45, pl. 2, fig. 3, 1907.

Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 49, pl. 1, fig. 3, 1909.

†*seminuda* Gillette and Baker, Hemip. Colo., p. 102, 1895.

Baker, Psyche, vii, Suppl., i, p. 24, 1896.

Localities: Colo., Utah, N. Mex., Ariz.

2183. *Eutettix pullatus* Ball

Ball, Can. Ent., xxxiii, p. 48, 1901.

Ball, Proc. Dav. Acad. Sci., xii, p. 46, pl. 2, fig. 4, 1907.

Localities: Colo., Utah, N. Mex., Ariz.

2184. *Eutettix perelegantis* Ball

Ball, Can. Ent., xxxiii, p. 46, 1901.

Ball, Proc. Dav. Acad. Sci., xii, p. 47, pl. 2, fig. 5, 1907.

Localities: Colo., Utah.

2185. *Eutettix mildredae* Ball

Ball, Can. Ent., xxxiii, p. 45, 1901.

Ball, Proc. Dav. Acad. Sci., xii, p. 48, pl. 2, fig. 6, 1907.

Localities: Colo., N. Mex., Ariz.

2185½. *Eutettix columbianus* Ball

Ball, Can. Ent., xlviii, p. 125, 1916.

Locality: Wash.

2186. *Eutettix amandus* Ball

Ball, Can. Ent., xli, p. 82, 1909.

Locality: Ariz.

2187. *Eutettix snowi* Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 49, pl. 2, fig. 7, 1907.

Locality: Ariz.

2188. *Eutettix saucius* Ball

Ball, Can. Ent., xxxiii, p. 46, 1901.

Ball, Proc. Dav. Acad. Sci., xii, p. 49, pl. 2, fig. 8, 1907.

Localities: Colo., Utah, Calif.

2188½. *Eutettix nevada* Ball

Ball, Can. Ent., xlviii, p. 126, 1916.

Locality: Nevada.

2189. *Eutettix pulchellus* Bak.

Baker, Psyche, vii, Suppl., i, p. 24, 1896.

Ball, Proc. Dav. Acad. Sci., xii, p. 50, pl. 2, fig. 9, 1907.

a. var. *scaber* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 96, 1898.

Localities: Ia., N. Mex., Ariz.

2190. *Eutettix albidus* (Ball)

Ball, Can. Ent., xxxii, p. 203, 1900, *Phlepsius*.

Ball, Proc. Dav. Acad. Sci., xii, p. 51, pl. 2, fig. 10, 1907.

Localities: Colo., Utah, Ariz.

2191. *Eutettix ziczac* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 195, 1915.

Locality: Texas.

2192. *Eutettix pannosus* Ball

Ball, Can. Ent., xxiv, p. 12, 1902.

Ball, Proc. Dav. Acad. Sci., xii, p. 51, pl. 2, fig. 11, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Locality: Calif.

2192½. *Eutettix rubidus* Ball

Ball, Can. Ent., xlviii, p. 126, 1916.

Locality: Utah.

2193. *Eutettix texanus* Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 52, 1907.

Locality: Texas.

2194. *Eutettix bicoloratus* Ball

Ball, Can. Ent., xxxvii, p. 212, 1905.

Ball, Proc. Dav. Acad. Sci., xii, p. 53, pl. 2, fig. 12, 1907.

Localities: Ark., Utah.

Genus *Phlepsius* Fieb.Haplotype *intricatus* (H. S.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 503, 1866.

Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.

Signoret, Ann. Soc. Ent. Fr., ser. 5, x, p. 68, 1880.

Mayr, Tabellen, p. 32, 1884.

Van Duzee, Trans. Am. Ent. Soc., xix, pp. 63, 300, 1892.

Melichar, Cicad. Mitt. Eur., p. 204, 1896.

Matsumura, Termes. Fuzet., xxv, p. 382, 1902.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 346, 1908.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 68, 1916.

†*Allygus* Uhler, Stand. Nat. Hist., ii, p. 245, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 286, 1889.

Paraphlepsius Baker, Can. Ent., xxix, p. 158, 1897 (orthotype *ramosus* Bak.)*Parallygus* Melichar, Homop. Ceylon, p. 179, 1903 (haplotype *divaricatus* [Melich.]).2195. *Phlepsius majestus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 229, pl. 26, fig. 6, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 76, 1916.

Localities: N. Y., N. J., Pa., Miss., Ohio, Tenn., Ia., Kans.

2196. *Phlepsius spatulatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 78, 1892.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

personatus Baker, Can. Ent., xxx, p. 30, 1898.

?Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Localities: Ia., Utah, Texas, Ariz., Calif.

2197. *Phlepsius excultus* (Uhler)Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Jassus*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 80, 1892.

Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. p. 23, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.

[*infumatus* and *scalaris* Uhler MS] in collections.

Localities: Mass., N. Y., N. J., Pa., N. C., Ga., Fla., Tenn., Ill., Kans., Minn., Colo., Texas.

2198. *Phlepsius neomexicanus* Bak.

Baker, Psyche, vii, Suppl., i, p. 13, 1895.

Locality: N. Mex.

2199. *Phlepsius superbus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 81, 1892.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.

Localities: N. C., Ga., Tenn., Mo., Texas, Ariz., Nev., Calif.

2200½. *Phlepsius distinctus* Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 129, 1917.

Locality: S. C.

2200. *Phlepsius areolatus* Bak.

Baker, Can. Ent., xxx, p. 30, 1898.

Locality: Kans.

2201. *Phlepsius decorus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 230, pl. 26, fig. 7, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 141, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 76, 1916.

Localities: Ont., Me., N. Y., N. J., Pa., Fla., Ohio, Tenn., Ia.,
Neb., Kans.2202. *Phlepsius ovatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 79, 1892.

Gillette and Baker, Hemip. Colo., p. 94, 1895.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 75, 1916.

Localities: Tenn., Kans., Texas, Colo., Utah, Calif.

2203. *Phlepsius graphicus* Ball

Ball, Can. Ent., xxxii, p. 201, 1900.

Localities: Neb., Colo.

2204. *Phlepsius cumulatus* Ball

Ball, Can. Ent., xxxii, p. 202, 1900.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.

a. var. arctostaphylae Ball

Ball, Can. Ent., xxxii, p. 202, 1900.

Localities: Colo., Utah, N. Mex.

2205. *Phlepsius attractus* Ball

Ball, Can. Ent., xli, p. 77, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Locality: Fla.

2206. *Phlepsius floridanus* Ball

Ball, Can. Ent., xli, p. 78, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Locality: Fla.

2207. *Phlepsius utahus* Ball

Ball, Can. Ent., xli, p. 79, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Localities: Utah, Calif.

2208. *Phlepsius tigrinus* Ball

Ball, Can. Ent., xli, p. 80, 1909.

Locality: D. C.

2209. *Phlepsius costomaculatus* (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 207, 1894, *Allygus*.

Osborn, Ohio Nat., ix, p. 460, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

pulchripennis Baker, Ent. News, ix, p. 65, 1898.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.

Localities: Fla., Texas. (Guatemala.)

2210. *Phlepsius lippulus* Ball

Ball, Can. Ent., xxxv, p. 227, 1903.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Localities: Fla.

2210^{1/2}. *Phlepsius carolinus* Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 127, 1917.

Locality: S. C.

2211. *Phlepsius franconianus* Ball

Ball, Can. Ent., xxxv, p. 228, 1903.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.

Localities: Me., N. H.

2212. *Phlepsius uhleri* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 67, 1892.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Localities: N. J., Md.

2213. *Phlepsius josea* Ball

Ball, Can. Ent., xxxii, p. 347, 1900.

Locality: Colo.

2214. *Phlepsius extremus* Ball

Ball, Can. Ent., xxxiii, p. 10, 1901.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Localities: Colo., Calif.

2215. *Phlepsius maculatus* Osb.

Osborn, Ohio Nat., v, p. 276, 1905.

Locality: Ohio.

2216. *Phlepsius maculellus* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 141, 1915.

Locality: Me.

2217. *Phlepsius nigrifrons* Ball

Ball, Can. Ent., xxxvii, p. 210, 1905.

Locality: Ark.

2218. *Phlepsius vanduzei* Ball

Ball, Can. Ent., xxxiii, p. 9, 1901.

Localities: Colo., Utah.

2219. *Phlepsius denudatus* Ball

Ball, Can. Ent., xxxiii, p. 11, 1901.

Locality: Colo.

2219¼. *Phlepsius loculatus* Ball

Ball, Can. Ent., xlviii, p. 128, 1916.

Localities: Utah, Calif.

2219½. *Phlepsius stellaris* Ball

Ball, Can. Ent., xlviii, p. 129, 1916.

Locality: Utah.

2220. *Phlepsius lascivius* Ball

Ball, Can. Ent., xxxii, p. 200, 1900.

Localities: Neb., Colo., Utah.

2221. *Phlepsius altus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 228, pl. 26, fig. 5, 1897.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 99, pl. 6, fig. 3, 1898.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

minus Baker, Ent. News, ix, p. 67, 1898.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.

Localities: N. J., Md., Fla., Ia., Neb., Kans.

2222. *Phlepsius pallidus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 69, 1892.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Localities: Mo., Texas.

2223. *Phlepsius incisus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 73, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 71, 1916.

Localities: Ont., Me., N. Y., Pa., Mich., Tenn.

2223 $\frac{1}{2}$. *Phlepsius umbrosus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 88, 1917.

Locality: Wis.

2224. *Phlepsius tubus* Ball

Ball, Can. Ent., xli, p. 78, 1909.

Locality: D. C.

2225. *Phlepsius pusillus* Bak.

Baker, Ent. News, ix, p. 66, 1898.

Locality: Md.

2226. *Phlepsius fuscipennis* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 70, 1892.

Southwick, Science, xix, p. 287, 1892.

Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 71, 1916.

Localities: N. Y., N. J., Fla., Tenn.

2227. *Phlepsius turpiculus* Ball

Ball, Can. Ent., xxxii, p. 200, 1900.

Localities: Ont., N. Y., Neb. Colo.

2227 $\frac{1}{2}$. *Phlepsius bifidus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 89, 1917.

Locality: Wis.

2228. *Phlepsius irroratus* (Say)Say, Jl. Acad. Sci. Phila., vi, p. 308, 1831; Compl. Writ., ii, p. 384, *Jassus*.Harris in Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus*.Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus*.Walker, List Homop., iii, p. 894, 1851; iv, p. 1164, 1852, *Jassus*.Packard, Guide to Study of Insects, p. 532, 1869, *Jassus*.Rathvon in Mombert, Hist. Lanc. Co., Pa., p. 551, 1869, *Jassus*.Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877; iv, p. 511, 1878, *Jassus*.Lintner, 1st Rept. N. Y. St. Ent., p. 331, 1882, *Jassus*.Uhler, Stand. Nat. Hist., ii, p. 245, 1884, *Allygus*.Van Duzee, Can. Ent., xxi, p. 11, 1889, *Allygus*.

Van Duzee, Ent. Am., vi, p. 93, 1890.

Van Duzee, Psyche, v, p. 389, 1890.

Provancher, Pet. Faune Ent. Can., iii, p. 286, 1890, *Allygus*.Provancher, Nat. Can., xix, p. 248, 1890, *Allygus*.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 71, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

- Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 94, fig. 25, 1912.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915.
 Gibson, Can. Ent., xlviii, p. 178, 1916.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.
testudinarius Burmeister, Genera Ins., i, pl. 14, 1838, *Jassus*.
sinornatus Packard, U. S. Ent. Comm., Bul. 7, p. 80, 1881, *Jassus* (*inoratus*).
 Packard, 5th Rept. U. S. Ent. Comm., p. 324, 1890, *Jassus*.
 Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ohio,
 Tenn., Ill., Ia., Mo., Kans., Ark., Colo., Utah.

2229. **Phlepsius latifrons** Van D.

- Van Duzee, Trans. Am. Ent. Soc., xix, p. 66, 1892.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.
 Localities: Md., Tenn.

2230. **Phlepsius collitus** Ball

- Ball, Can. Ent., xxxv, p. 227, 1903.
 Osborn, Ohio Nat., v, p. 275, 1905.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 142, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 73, 1916.
 Localities: Ont., Me., Mass., N. Y., N. J., D. C., N. C., Fla., Ohio,
 Tenn., Iowa.

2230½. **Phlepsius tullahomi** DeL.

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 73, 1916.
 Locality: Tenn.

2231. **Phlepsius truncatus** Van D.

- Van Duzee, Trans. Am. Ent. Soc., xix, p. 72, 1892.
 Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
 Smith, Cat. Ins. N. J., edn. 2, p. 105, 1910.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.
 Localities: Pa., N. C., Fla., Tenn., Ia.

2231½. **Phlepsius torridus** Lthr.

- Lathrop, Ohio Jl. Sci., xvii, p. 126, 1917.
 Locality: S. C.

2232. **Phlepsius cinereus** Van D.

- Van Duzee, Trans. Am. Ent. Soc., xix, p. 68, 1892.
 Gillette and Baker, Hemip. Colo., p. 94, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.
 Localities: N. C., Fla., Miss., Tenn., Mo., Texas, Colo. (West
 Indies.)

2233. *Phlepsius texanus* Bak.

Baker, Can. Ent., xxx, p. 31, 1898.

Locality: Texas.

2234. *Phlepsius lobatus* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 247, 1898.

Locality: Ia.

2235. *Phlepsius punctiscriptus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 75, 1892.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.

Localities: Fla., Tenn., Kans., Texas.

2235½. *Phlepsius tennesa* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 75, 1916.

similis Lathrop, Ohio Jl. Sci., xvii, p. 128, 1917.

Localities: S. C., Tenn.

2236. *Phlepsius apertus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 76, 1892.

Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Can. Ent., xl, p. 158, 1908.

?Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 140, 1915; Bul. 248, p. 79, 1916.

Localities: Quebec, Ont., Me., N. Y., Mo.(?), Br. Col.

2237. *Phlepsius fulvidorsum* (Fitch)Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus*.Walker, List Homop., iii, p. 894, 1851, *Jassus*.

Van Duzee, Psyche, v, p. 390, 1890.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 74, 1892.

Southwick, Science, xix, p. 287, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Can. Ent., xl, p. 158, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 142, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C., Ohio, Tenn.,
Ia., Mont., Texas.2238. *Phlepsius optatus* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 194, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.

Locality: Tenn.

2239. *Phlepsius rileyi* Bak.

Baker, Can. Ent., xxx, p. 32, 1898.

Locality: Texas.

2240. *Phlepsius fastuosus* Ball

Ball, Can. Ent., xxxvii, p. 210, 1905.

Locality: N. Mex.

2241. *Phlepsius slossoni* Ball

Ball, Can. Ent., xxxvii, p. 209, 1905.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Localities: N. C., Fla.

2242. *Phlepsius nudus* Ball

Ball, Can. Ent., xliii, p. 204, 1911.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Locality: Fla.

2243. *Phlepsius occidentalis* Bak.

Baker, Ent. News, ix, p. 66, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

Localities: Calif., Wash.

2244. *Phlepsius nebulosus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 77, 1892.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 100, pl. 6, fig. 4, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.

Localities: N. H., Mass., N. Y., N. J., Fla., Miss., Ia., Dak., Neb., Colo., Manitoba.

2245. *Phlepsius dentatus* Bak.

Baker, Ent. News, ix, p. 65, 1898.

Locality: Md.

2246. *Phlepsius solidaginis* (Walk.)Walker, List Homop., iii, p. 847, 1851, *Acocephalus*.

Van Duzee, Can. Ent., xli, p. 384, 1909.

humidus Van Duzee, Trans. Am. Ent. Soc., xix, p. 76, 1892.

Southwick, Science, xix, p. 288, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 74, 1916.

Localities: Ont., Me., N. H., Conn., N. Y., N. J., Pa., Md., Tenn.

2246½. *Phlepsius brunneus* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 74, 1916.

Locality: Tenn.

2247. *Phlepsius ramosus* (Bak.)Baker, Can. Ent., xxix, p. 158, 1897, *Paraphlepsius*.

Localities: N. Y., Ohio.

Genus *Dorydiella* Bak.Orthotype *floridana* Bak.

Baker, Can. Ent., xxix, p. 159, 1897.

2248. *Dorydiella floridana* Bak.

Baker, Can. Ent., xxix, p. 159, 1897.

Localities: Mass., Fla.

Genus *Acinopterus* Van D.Haplotype *acuminatus* Van D.

Van Duzee, Psyche, v, p. 307, 1892.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.

Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.

2249. *Acinopterus acuminatus* Van D.

Van Duzee, Psyche, vi, p. 308, 1892.

Gillette and Baker, Hemip. Colo., p. 94, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907; ix, p. 225, 1909.

Osborn, Ohio Nat., ix, p. 466, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.

a. var. *inornatus* (Bak.)Baker, Psyche, vii, Suppl., i, p. 13, 1895, *Phlepsius*.*variegatus* Ball, Can. Ent., xxxv, p. 231, 1903.b. var. *viridis* Ball

Ball, Can. Ent., xxxv, p. 231, 1903.

c. var. *brunneus* Ball

Ball, Can. Ent., xxxv, p. 231, 1903.

Localities: N. J., Pa., Md., D. C., N. C., Fla., Tenn., Colo., Utah,
Ariz., Calif. (Neotropical.)Genus *Allygus* ScottLogotype *mirtus* (Fabr.)

Fieber, Kat. Eur. Cicad., p. 13, 1872 (catalogue name).

Scott, Ent. Mo. Mag., xii, p. 169, Dec. 1875 (for *mirtus* and *commutatus*).

Fieber, Cicad. d'Eur., i, p. 123, 1875; ii, pl. 13, 1876.

Melichar, Cicad. Mitt. Eur., p. 251, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 164, 1896.

Van Duzee, Check List Hemip., p. 73, 1916.

†*Jassus* Mayr, Tabellen, p. 34, 1884.

Puton, Cat. Hemip. Palae., edn. 3, p. 84, 1886.

Matsumura, Termes. Fuzet., xxv, pp. 356, 401, 1902.

Oshanin, Verz. Palae. Hemip., ii, p. 135, 1906.

Oshanin, Kat. Palae. Hemip., p. 107, 1912 (names *atomarius* Fabr. type).

2250. *Allygus gutturosus* (Ball)

Ball, Can. Ent., xlii, p. 307, 1910, *Thamnotettix*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914, *Thamnotettix*.

Locality: Calif.

Genus *Thamnotettix* Zett.

Logotype *prasinus* Fall.

Zetterstedt, Ins. Lapp., column 292, 1840.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.

Stål, Hemip. Afr., iv, pp. 101, 122, 1866.

Kirschbaum, Cicad. v. Wiesbd., pp. 81, 82, 1868.

Stål, Hemip. Fabr., ii, p. 82, 1869.

Sahlberg, Cicad., pp. 70, 207, 1871.

Scott, Ent. Mo. Mag., xii, p. 21, 1875.

Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.

Mayr, Tabellen, p. 33, 1884.

Fieber, Revue d'Ent., iv, p. 59, 1885 (monograph European species).

Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 62.

Woodworth, Psyche, v, p. 75, 1888.

Provancher, Pet. Faune Ent. Can., iii, p. 283, 1889.

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.

Melichar, Cicad. Mitt. Eur., p. 281, 1896.

Matsunura, Termes. Fuzet, xxv, p. 366, 1902.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 354, 1908.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.

†*Cicadula* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.

2251. *Thamnotettix kennicotti* (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 161, 1863, *Jassus*.

Uhler, Stand. Nat. Hist., ii, p. 246, 1884.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Slosson, Ent. News, vi, p. 5, 1895.

Gillette and Baker, Hemip. Colo., p. 98, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.

Localities: Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., N. C.,
Ohio, Tenn., Colo., Br. Col.

2252. *Thamnotettix subcupraeus* (Prov.)

Provancher, Nat. Can., iv, p. 277, 1872, *Jassus*.

Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Localities: Quebec, Ont., N. H., N. Y., N. J., Fla., Assiniboine.

2253. *Thamnotettix brittoni* Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 166, 1907.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.

Localities: Conn., N. C., Tenn.

2254. *Thamnotettix osborni* Ball

Ball, Can. Ent., xxxii, p. 337, 1900.

Localities: Neb., Colo.

2255. *Thamnotettix schwarzi* Ball

Ball, Can. Ent., xliii, p. 197, 1911 (spelled *schwartzi*).

Localities: Utah, Ariz.

2256. *Thamnotettix geminatus* Van D.

Van Duzee, Ent. Am., vi, p. 79, 1890.

Gillette and Baker, Hemip. Colo., p. 98, 1895.

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 96, fig. 26, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

†*laeta* Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.

Localities: Colo., Calif., Wash., Alaska.

2257. *Thamnotettix fasciaticollis* (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 86, 1864, *Jassus*.

Van Duzee, Psyche, vi, p. 306, 1892.

Localities: Calif.(?). (Mexico.)

2258. *Thamnotettix kirkaldyi* Ball

Ball, Can. Ent., xliii, p. 197, 1911.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2259. *Thamnotettix atropunctatus* Van D.

Van Duzee, Ent. Am., vi, p. 91, 1890.

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2260. *Thamnotettix coquilletti* Van D.

Van Duzee, Ent. Am., vi, p. 77, 1890.

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Localities: Colo., Calif.

2261. *Thamnotettix heidemanni* Ball

Ball, Can. Ent., xxxii, p. 338, 1900.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Localities: Colo., Calif.

2262. *Thamnotettix cockerelli* Ball

Ball, Can. Ent., xxxii, p. 339, 1900.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.

Localities: Me., Colo.

2263. *Thamnotettix morsei* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.

Locality: Me.

2264. *Thamnotettix graeculus* Ball

Ball, Can. Ent., xxxiii, p. 6, 1901.

Locality: Colo.

2265. *Thamnotettix clitellarius* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 309, 1831; Compl. Writ., ii, p. 384,

Harris in Hitchcock, Geol. of Mass., edn. 2, p. 580, 1835, *Jassus*. [Jassus.

Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus*.

Walker, List Homop., iii, p. 876, 1851, *Bythoscopus*; iv, p. 1164, 1852, *Jassus*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 359, 365, 1856, *Bythoscopus*.

Uhler, Stand. Nat. Hist., ii, p. 246, 1884.

Saunders, Ins. Inj. to Fruits, p. 188, 1886, *Bythoscopus*.

Van Duzee, Psyche, v, p. 389, 1890.

Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.

Harrington, Ottawa Nat., vi, p. 32, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Psyche, vi, p. 306, 1893.

Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Bythoscopus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Osborn, Me. Agr. Exp. Sta. Bul., 238, p. 134, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 78, 1916.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Ohio, Tenn.,

Mo., Kans., Colo.

2266. *Thamnotettix eburatus* Van D.

Van Duzee, Can. Ent., xxi, p. 10, 1889.

?Wirtner, Ann. Carn. Mus., iii, p. 224, 1904 (spelled *oburata*).

Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906; xl, p. 159, 1908.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 133, 1915.

?*citronellus* Provancher, Pet. Faune Ent. Can., iii, p. 283, 1890 (not of 1872).

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Localities: Ont., Me., N. Y., Pa.(?).

2267. *Thamnotettix furculatus* Osb.

Osborn, Ohio Nat., v, p. 275, 1905.

Locality: Ohio.

2268. *Thamnotettix pasadena* Ball

Ball, Can. Ent., xlv, p. 212, 1914.

Locality: Calif.

2269. *Thamnotettix collaris* Ball

Ball, Can. Ent., xxxiv, p. 15, 1902.

exquisitos Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Locality: N. Y.

2270. *Thamnotettix mendicus* Ball

Ball, Can. Ent., xxxiv, p. 16, 1902.

Localities: Colo., Calif.

2271. *Thamnotettix rupinatus* Ball

Ball, Can. Ent., xliii, p. 199, 1911.

Locality: Calif.

2272. *Thamnotettix lucidus* Bak.

Baker, Psyche, vii, Suppl., i, p. 12, 1895.

Locality: N. Mex.

2273. *Thamnotettix intricatus* Ball

Ball, Can. Ent., xliii, p. 198, 1911.

Locality: Calif.

2274. *Thamnotettix montanus* Van D.

Van Duzee, Can. Ent., xxiv, p. 268, 1892.

Van Duzee, Psyche, vi, p. 306, 1892.

Gillette and Baker, Hemip. Colo., p. 99, 1895.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

Localities: Colo., Calif., Br. Col.

2275. *Thamnotettix belli* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 471, 1877, *Jassus*.

Van Duzee, Psyche, vi, p. 306, 1892.

Gillette and Baker, Hemip. Colo., p. 94, 1895.

Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.

[*semipullatus* Van D., MS] Van Duzee, Psyche, vi, p. 306, 1892.

sonorae Gillette and Baker, Hemip. Colo., p. 100, 1895.

Baker, Ent. News, viii, p. 54, 1897.

a? var. *gilletti* Van D.

Van Duzee, Can. Ent., xxiv, p. 267, 1892.

Van Duzee, Psyche, vi, p. 306, 1892.

Gillette and Baker, Hemip. Colo., p. 98, 1895.

b. var. *brunneus* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.

Localities: Quebec, Ont., Me., N. Y., N. C., Mich., Colo., Ariz.,
Br. Col.

2276. *Thamnotettix citrinifrons* G. & B.

Gillette and Baker, Hemip. Colo., p. 95, 1895.

Locality: Colo.

2277. *Thamnotettix aureolus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 213, 1894.

§areolatus Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914

Locality: Calif.

2278. *Thamnotettix aurantiacus* (Prov.)

Provancher, Nat. Can., iv, p. 377, 1872, *Jassus*.

Locality: Quebec.

2279. *Thamnotettix rufescens* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.

Locality: Me.

2280. *Thamnotettix flavocapitatus* Van D.

Van Duzee, Ent. Am., vi, p. 80, 1890.

Gillette and Baker, Hemip. Colo., p. 96, 1895 (spelled *flavicapitata*)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Localities: Colo., Calif.

2281. *Thamnotettix waldanus* Ball

Ball, Can. Ent., xxxv, p. 229, 1903.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 133, 1915.

Localities: Ont., Me., Colo., Manitoba.

2282. *Thamnotettix januatus* Ball

Ball, Can. Ent., xlv, p. 213, 1914.

Locality: Calif.

2283. *Thamnotettix limbatus* Van D.

Van Duzee, Ent. Am., vi, p. 92, 1890.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2284. *Thamnotettix perspicillatus* O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 227, 1897.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.

Localities: Ia., Tenn.

2285. *Thamnotettix longulus* G. & B.

Gillette and Baker, Hemip. Colo., p. 97, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 226, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 82, 1916.

Localities: Pa., Tenn., Ia., Kans., Colo.

2286. *Thamnotettix atridorsum* Van D.

Van Duzee, Can. Ent., xxvi, p. 92, 1894.

Gillette and Baker, Hemip. Colo., p. 94, 1895.

a. var. vescus Ball

Ball, Can. Ent., xlii, p. 302, 1910.

b. var. vetulus Ball

Ball, Can. Ent., xlii, p. 302, 1910.

Localities: Colo., Utah, Calif.

2287. *Thamnotettix titusi* Ball

Ball, Can. Ent., xlii, p. 267, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

a. var. vivatus Ball

Ball, Can. Ent., xlii, p. 302, 1910.

Localities: Nev., Calif., Oreg.

2288. *Thamnotettix vastulus* Ball

Ball, Can. Ent., xlii, p. 268, 1910.

Locality: Calif.

2289. *Thamnotettix vespertinus* Ball

Ball, Can. Ent., xlii, p. 301, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2290. *Thamnotettix visalius* Ball

Ball, Can. Ent., xlii, p. 301, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2291. *Thamnotettix gloriosus* Ball

Ball, Can. Ent., xlii, p. 303, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2292. *Thamnotettix chlamydatus* (Prov.)

Provancher, Pet. Faune Ent. Can., ii, p. 339, 1890, *Deltocephalus*.

Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.

Van Duzee, Can. Ent., xlv, p. 329, 1912, *Athysanus*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 136, 1915.

infuscatus Gillette and Baker, Hemip. Colo., p. 98, 1895.

Osborn, 20th Rept. N. Y. St. Ent., p. 537, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

punctiscuta Gillette and Baker, Hemip. Colo., p. 99, 1895.

Baker, Ent. News, viii, p. 54, 1897.

Localities: Quebec, Me., N. H., N. Y., Mich., Colo.

2293. *Thamnotettix vapidus* Ball

Ball, Can. Ent., xlii, p. 305, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2294. *Thamnotettix dissimilatus* Ball

Ball, Can. Ent., xlii, p. 306, 1910.

Locality: Calif.

2295. *Thamnotettix ursinus* Ball

Ball, Can. Ent., xlii, p. 307, 1910.

Locality: Ore.

2296. *Thamnotettix languidus* Ball

Ball, Can. Ent., xxxiv, p. 17, 1902.

Locality: Calif.

2297. *Thamnotettix gemellus* Ball

Ball, Can. Ent., xlii, p. 303, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2298. *Thamnotettix generosus* Ball

Ball, Can. Ent., xlii, p. 304, 1910.

Locality: Calif.

2299. *Thamnotettix gerulus* Ball

Ball, Can. Ent., xlii, p. 304, 1910.

Localities: Calif., Ore.

2300. *Thamnotettix bullatus* Ball

Ball, Can. Ent., xxxiv, p. 17, 1902.

Locality: Calif.

2301. *Thamnotettix glomerosus* Ball

Ball, Can. Ent., xlii, p. 308, 1910.

Locality: Colo.

2302. *Thamnotettix shermani* Ball

Ball, Can. Ent., xxxv, p. 230, 1903.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 80, 1916.

Localities: N. C., Tenn.

2302¼. *Thamnotettix flavotinctus* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 82, 1916.

Locality: Tenn.

2302½. *Thamnotettix crumbi* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.

Locality: Tenn.

2303. *Thamnotettix orbonatus* Ball

Ball, Can. Ent., xxxv, p. 229, 1903.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Locality: Fla.

2304. *Thamnotettix caricis* G. & B.

Gillette and Baker, Hemip. Colo., p. 95, 1895.

lutea Gillette and Baker, Hemip. Colo., p. 106, 1895, *Cicadula*.

Baker, Ent. News, viii, p. 54, 1897.

Locality: Colo.

2305. *Thamnotettix melanogaster* (Prov.)Provancher, Nat. Can., iv, p. 378, 1872, *Jassus*.

Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.

Van Duzee, Psyche, vi, p. 306, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 537, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 136, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 80, 1916.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ohio,
Tenn.

2305½. *Thamnotettix stramineus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 90, 1917 (figures).

Locality: Wis.

2306. *Thamnotettix ciliatus* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 244, 1898.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.

Localities: Me., Ia., Colo.

2307. *Thamnotettix decipiens* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 285, 1890.

Van Duzee, Psyche, vi, p. 306, 1892.

Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 137, 1915.

Localities: Quebec, Me., N. Y., Utah, Br. Col.

2308. *Thamnotettix smithi* Van D.

Van Duzee, Can. Ent., xxiv, p. 266, 1892.

Van Duzee, Psyche, vi, p. 306, 1892.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906.

Localities: Ont., N. J., Ia.

2309. *Thamnotettix venditarius* Ball

Ball, Can. Ent., xlii, p. 266, 1910.

Localities: Utah, Nev.

2310. *Thamnotettix longiseta* Van D.

Van Duzee, Can. Ent., xxiv, p. 266, 1892.

Van Duzee, Psyche, vi, p. 306, 1892.

Gillette and Baker, Hemip. Colo., p. 99, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

Localities: Ia., Colo., Calif.

2311. *Thamnotettix gladiolus* Ball

Ball, Can. Ent., xliii, p. 309, 1910.

Locality: Colo.

2312. *Thamnotettix fitchii* Van D.

Van Duzee, Ent. Am., vi, p. 133, 1890.

Smith, N. J. Agr. Exp. Sta., Bul. K, p. 42, fig. 62, 1890.

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 535, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Metcalf, JI. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

Osborn, Me. Agr. Exp. Sta., Bul., 238, p. 137, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.

[*Cicadula 4-punctata* Fitch MS] in collections.

Localities: Me., N. Y., N. J., Pa., N. C., Ohio, Tenn., Ill., Ia., Kans.

2313. *Thamnotettix pallidulus* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 245, 1898.

Locality: Ia.

2314. *Thamnotettix nigrifrons* (Forbes)

Forbes, 14th Rept. Ill. St. Ent., p. 67, pl. 5, fig. 3, 1864, *Cicadula*.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 218, 1897 (part).

Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 77, fig. 14, 1912 (part).

perpunctata Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 200, 212, 1894.

Baker, Psyche, viii, p. 116, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.

Van Duzee, Can. Ent., xli, p. 128, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Metcalf, JI. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Deltocephalus*.

Localities: Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Miss., La., Ohio, Ill., Ia., Colo.

2315. *Thamnotettix comatus* (Ball)

Ball, Can. Ent., xxxii, p. 343, 1900, *Deltocephalus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907; ix, p. 228, 1909.

ſcornata Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Localities: Fla. (West Indies, Mexico.)

2316. *Thamnotettix colonus* (Uhl.)

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 80, *Deltocephalus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916, *Deltocephalus*.

villicus Crumb, Ann. Ent. Soc. Am., viii, p. 194, 1915, *Athysanus*.

Localities: Fla. (West Indies.)

2317. *Thamnotettix emarginatus* G. & B.

Gillette and Baker, Hemip. Colo., p. 96, 1895.

Locality: Colo.

2318. *Thamnotettix inornatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 303, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Can. Ent., xxxviii, p. 410, 1906; xl, p. 159, 1908.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 137, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.

Localities: Quebec, Ont., Me., N. Y., Tenn., Ia., Colo., Br. Col.

2318½. *Thamnotettix mellus* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 91, 1917 (figures).

Locality: Wis.

2319. *Thamnotettix placidus* Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.

Localities: Me., N. Y.

2320. *Thamnotettix cypraceus* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 245, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.

Localities: N. Y., Ia.

2320½. *Thamnotettix vittipennis* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 91, 1917 (figures).

Locality: Wis.

2321. *Thamnotettix umbraticus* Ball

Ball, Can. Ent., xlii, p. 309, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Calif.

2322. *Thamnotettix chiragricus* Ball

Ball, Can. Ent., xxxii, p. 337, 1900.

Locality: Ariz.

2323. *Thamnotettix*(?) *luctuosus* Stål

Stål, Freg. Engenes Resa, Ins., p. 292, 1859.

Locality: Calif.

Genus *Chlorotettix* Van D.Orthotype *unicolor* (Fitch)

Van Duzee, Psyche, vi, p. 306, 1892.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.

Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 83, 1916.

2324. *Chlorotettix unicolor* (Fitch)Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus*.Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus*.Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878, *Jassus*.Uhler, Stand. Nat. Hist., ii, p. 246, 1884, *Grypotes*.Van Duzee, Can. Ent., xxi, p. 9, 1889, *Grypotes*.Provancher, Pet. Faune Ent. Can., iii, p. 286, 1890, *Jassus*.Van Duzee, Psyche, v, p. 390, 1890, *Grypotes*.Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Grypotes*.Harrington, Ottawa Nat., vi, p. 32, 1892, *Thamnotettix*.Southwick, Science, xix, p. 288, 1892, *Athysanus*.

Van Duzee, Psyche, vi, pp. 306, 308, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Gillette and Baker, Hemip. Colo., p. 103, 1895.

Gillette, Psyche, ix, p. 173, 1901.

- Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Van Duzee, Can. Ent., xl, p. 159, 1908; xli, p. 384, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
 Van Duzee, Can. Ent., xlv, p. 328, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 144, 1915; Bul. 248, p. 76, 1916.
vanduzeei Baker, Can. Ent., xxx, p. 219, 1898.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., Mo.,
 Ia., Kans., Dak., Colo.

2325. *Chlorotettix vacunus* Crmb.

- Crumb, Ann. Ent. Soc. Am., viii, p. 196, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.

Locality: Tenn.

2326. *Chlorotettix spatulatus* O. & B.

- Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 225, pl. 26, fig. 4, 1897.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 86, 1916.

Localities: N. C., Fla., Tenn., Ia., Ohio, Neb., Kans., Colo.

2327. *Chlorotettix tergatus* (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus*.
 Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus*.
 Uhler, Staud. Nat. Hist., ii, p. 246, 1884, *Grypotes*.
 Van Duzee, Psyche, v, p. 390, 1890, *Grypotes*.
 Southwick, Science, xix, p. 288, 1892, *Athysanus*.
 Van Duzee, Psyche, vi, pp. 306, 309, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
 Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 144, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.

a. var. *melanotus* DeL.

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.

Localities: Ont., Me., N. Y., N. J., Pa., Fla., Ohio, Tenn., Mich
 Mo.

2327½. *Chlorotettix suturalis* DeL.

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 85, 1916.

Locality: Tenn.

2328. *Chlorotettix rugicollis* Ball

- Ball, Can. Ent., xxxv, p. 230, 1903.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909
 Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 85, 1916.

Localities: N. J., Fla., Tenn., Texas.

2329. *Chlorotettix viridius* Van D.

Van Duzee, Psyche, vi, p. 309, 1892.

Southwick, Science, xix, p. 288, 1892, *Athysanus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 71, 1907; ix, p. 228, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 86, 1916.

§*viridis* Weed, Can. Ent., xxiv, p. 278, 1892.

Localities: N. Y., N. J., D. C., N. C., Ga., Fla., Tenn., Mo. (West Indies.)

2330. *Chlorotettix nacreosus* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 196, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.

Locality: Tenn.

2331. *Chlorotettix galbanatus* Van D.

Van Duzee, Psyche, vi, p. 310, 1892.

Southwick, Science, xix, p. 288, 1892, *Athysanus*.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.

‡*unicolor* Baker, Can. Ent., xxx, p. 219, 1898.

Localities: Me., N. Y., N. J., Pa., N. C., Fla., Miss., Ohio, Tenn., Mo., Kans.

2332. *Chlorotettix balli* Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 246, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.

Localities: N. Y., D. C., Ohio, Tenn., Ia.

2333. *Chlorotettix minimus* Bak.

Baker, Can. Ent., xxx, p. 220, 1898.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 71, 1907; ix, p. 228, 1909.

Localities: Fla. (Neotropical.)

2334. *Chlorotettix vividus* Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 197, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.

Locality: Tenn.

2334½. *Chlorotettix borealis* S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 92, 1917 (figures).

Locality: Wis.

2335. *Chlorotettix tunicatus* Ball

Ball, Can. Ent., xxxii, p. 340, 1900.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.

Localities: Fla., Kans.

2336. *Chlorotettix lusorius* (O. & B.)Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 226, 1897, *Thamnotettix*.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.

Slosson, Ent. News, xvii, p. 326, 1906.

Osborn, Me. Agr. Sta., Bul. 238, p. 144, 1915.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Pa., Ohio, Ia., Colo.

2336½. *Chlorotettix delta* Ball

Ball, Ent. News, xxvii, p. 205, 1916.

Locality: Ariz.

2337. *Chlorotettix necopinus* Van D.

Van Duzee, Can. Ent., xxv, p. 282, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.

Localities: Miss., Fla., Tenn., Mo.

2338. *Chlorotettix stolatus* Ball

Ball, Can. Ent., xxxii, p. 341, 1900.

Locality: Colo.

2339. *Chlorotettix nudatus* Ball

Ball, Can. Ent., xxxii, p. 340, 1900.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.

Localities: Tenn., Ia.

2339½. *Chlorotettix iridescens* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, pp. 83, 86, 1916.

Locality: Tenn.

DIVISION *JASSARIA* (Van D.)Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, *Jassini*. (Tribe.)Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 324, 1906; iii, p. 73, 1907, *Jas-*Distant, Fauna Brit. Ind., Rhyn., iv, p. 321, 1908, *Jassusaria*. [*sini*. (Tribe.)Distant, Trans. Linn. Soc., Zool., xiii, p. 46, 1909, *Jassusaria*.

Baker, Phil. Jl. Sci., x, Sec. D., p. 49, 1915. (Key.)

Coelididae Dohrn, Cat. Hemip., p. 84, 1859.

Genus **Jassus** Fabr.Orthotype *nervosus* Fabr.

- Fabricius, Syst. Rhyng., p. 85, 1803.
 Stål, Hemip. Afr., iv, p. 119, 1866.
 Stål, Hemip. Fabr., ii, p. 78, 1869.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 735, 1870.
 Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 3, 1878.
 Berg, Hemip. Argent., p. 265, 1879.
 Uhler, Stand. Nat. Hist., ii, p. 245, 1884.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.
 Distant, Fauna Brit. Ind., Rhyng., iv, p. 327, 1908.
 Baker, Phil. Jl. Sci., x, Sec. D, p. 53, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 90, 1916.
Coelidia Germar, Mag. d. Ent., iv, pp. 38, 75, 1821.
 Germar, Silb. Revue Ent., i, p. 181, 1833.
 Burmeister, Handb. d. Ent., ii, pp. 105, 113, 1835.
 Burmeister, Genera Ins., i, pl. 15, 1838.
 Amyot and Serville, Hémip., p. 583, 1843.
 Stål, Of. Vet. Akad. Forh., xix, p. 494, 1862.
Deridna Walker, List Homop., Suppl., p. 319, 1858.
 Stål, Of. Vet. Akad. Forh., xix, p. 487, 1862.

2340. **Jassus olitorius** Say

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 310, 1831; Compl. Writ., ii, p. 385.
 Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Coelidia*.
 Walker, List Homop., iv, p. 1161, 1852, *Coelidia*.
 Uhler in Heilprin's Bermuda Isds., p. 154, 1889, *Coelidia*.
 Van Duzee, Psyche, v, p. 389, 1890.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Coelidia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
 Snow, Kans. Univ. Sci. Bul., ii, p. 350, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
 Van Duzee, Can. Ent., xli, p. 128, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.
♀ subbifasciatus Say, Jl. Acad. Nat. Sci., Phila., vi, p. 310, 1831; Compl.
 Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Coelidia*. [Writ., ii, p. 385.
 Walker, List Homop., iv, p. 1161, 1852, *Coelidia*.
 Glover, U. S. Dept. Agr., Rept. for 1876, p. 32, *Coelidia*.
 Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 16, 1878.
 Van Duzee, Psyche, v, p. 389, 1890 (as female of *olitorius*).
 Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890, *Idiocerus*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Coelidia*.

Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis*.

Southwick, Science, xix, p. 288, 1892.

fuscipennis Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 20, 1878.

semifasciata Uhler, Stand. Nat. Hist., ii, p. 245, fig. 311, 1884, *Coelidia*.

Localities: Ont., Me., N. Y., N. J., Pa., N. C., Fla., Mo., Kane
Ariz. (Bermudas.)

2341. *Jassus borealis* Spangb.

Spångberg, Of. Vet. Akad. Forh., xxxv, No. 6, p. 24, pl. 16, fig. 8, 1879.

Locality: "Am. Borealis."

2342. *Jassus melanotus* Spangb.

Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 19, 1878.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 90, 1916.

Localities: Ga., Tenn.

Genus *Neocoelidia* G. & B.

Orthotype *tumidifrons* G. & B.

Gillette and Baker, Hemip. Colo., p. 103, 1895.

Baker, Can. Ent., xxx, p. 289, 1898.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.

Baker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.

2343. *Neocoelidia tumidifrons* G. & B.

Gillette and Baker, Hemip. Colo., p. 104, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 183, 1897.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.

Localities: Me., N. J., Tenn., Fla., Ia., Colo., Texas.

2344. *Neocoelidia candida* Ball

Ball, Ent. News, xx, p. 166, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

Locality: Colo.

2344½. *Neocoelidia orovila* Ball

Ball, Ent. News, xxvii, p. 206, 1916.

Locality: Calif.

2345. *Neocoelidia lactipennis* (Van D.)

Van Duzee, Ent. Am., vi, p. 49, 1890, *Jassus*.

Locality: Calif.

2345½. *Neocoelidia ramona* Ball

Ball, Ent. News, xxvii, p. 206, 1916.

Locality: Calif.

2346. *Neocoelidia reticulata* Ball

Ball, Ent. News, xx, p. 167, 1909.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Localities: Colo., Utah, Calif.

2347. *Neocoelidia pallida* Bak.

Baker, Can. Ent., xxx, p. 290, 1898.

Localities: Ariz., Calif.

2348. *Neocoelidia lineata* Bak.

Baker, Can. Ent., xxx, p. 289, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Localities: Colo., Calif., Ore.

2349. *Neocoelidia compta* Ball

Ball, Ent. News, xx, p. 167, 1909.

Locality: N. Mex.

2350. *Neocoelidia barretti* Bak.

Baker, Can. Ent., xxx, p. 291, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

pulchella Ball, Ent. News, xx, p. 168, 1909.

Localities: Calif. (Mexico.)

2351. *Neocoelidia tripunctata* Ball

Ball, Ent. News, xx, p. 168, 1909.

Locality: Ariz.

2351^{1/2}. *Neocoelidia pentagona* Ball

Ball, Ent. News, xxvii, p. 207, 1916.

Locality: Ore.

2352. *Neocoelidia obscura* Bak.

Baker, Can. Ent., xxx, p. 289, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Localities: Texas, Ariz., Calif.

2352^{1/2}. *Neocoelidia triunata* Ball

Ball, Ent. News, xxvii, p. 207, 1916.

Locality: Utah.

Genus *Paracoelidea* Bak.Orthotype *tuberculata* Bak.

Baker, Can. Ent., xxx, p. 292, 1898.

Baker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.

2353. *Paracoelidea tuberculata* Bak.

Baker, Can. Ent., xxx, p. 292, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

Localities: Mass., N. Y., Md., D. C., N. C., Fla., Ala.

Genus *Tinobregmus* Van D.Haplotype *vittatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 213, 1894.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.

Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).

Barker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 92, 1916.

2354. *Tinobregmus vittatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 214, 1894.

Baker, Can. Ent., xxx, p. 289, 1898.

Osborn, Ohio Nat., iv, p. 9, 1903.

Van Duzee, Can. Ent., xli, p. 128, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.

Localities: Va., N. C., Fla., La., Texas. (Bermudas.)

2354½. *Tinobregmus viridescens* DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 92, 1916 (spelled *viridiscens*).

Locality: Tenn.

2355. *Tinobregmus pallidus* Osb.

Osborn, Ohio Nat., xi, p. 261, 1910.

Locality: Texas.

DIVISION *CICADULARIA* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, *Cicadulini* (Tribe).

Distant, Fauna Brit. Ind., Rhyn., iv, p. 366, 1908.

Van Duzee, Check List Hemip., p. 75, 1916.

(Tribe.)

Macrostelini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 342, 1906.

Genus *Cicadula* Zett.

Logotype *scznolata* Fall.

Zetterstedt, Ins. Lapp., column 296, 1840.

Fieber, Kat. Eur. Cicad., p. 10, 1872.

Fieber, Cicad. d'Eur., i, p. 119, 1875; ii, pl. 12, 1876.

Mayr, Tabellen, p. 31, 1884.

Fieber, Revue d'Ent., iv, p. 40, 1885 (monograph European spp.).

Woodworth, Psyche, v, p. 75, 1888 (names *quadrinotata* Fabr. type, valid?).

Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.

Edwards, Ent. Mo. Mag., xxvii, p. 27, 1891.

Van Duzee, Psyche, vi, p. 305, 1892.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.

Melichar, Cicad. Mitt. Eur., p. 307, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 180, 1896.

Matsumura, Termes. Fuzet., xxv, p. 361, 1902.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 366, 1908.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.

Macrostelus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 504, 1866.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 358, 1906.

Thamnus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.

Limotettix Sahlberg, Cicad., p. 224, 1871 (part).

2356. *Cicadula punctifrons* (Fall.)

Fallén, Hemip. Suec., Cicad., p. 42, 1826, *Cicada*.

Boheman, Kong. Vet. Akad. Handl. for 1847, p. 33, *Thamnotettix*.

Flor, Rhyn. Livl., ii, p. 328, 1861, *Jassus*.

Kirschbaum, Cicad. v. Wiesbd., p. 88, 1868, *Thamnotettix*.

Sahlberg, Cicad., p. 244, 1871, *Limotettix*.

Fieber, Revue d'Ent., iv, pp. 50, 58, 1885.

- Edwards, Ent. Mo. Mag., xxvii, p. 31, 1891.
 Van Duzee, Psyche, vi, p. 305, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
 Melichar, Cicad. Mitt. Eur., p. 34, pl. 11, figs. 1-4, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 185, pl. 21, fig. 3, 1896.
 Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
 Van Duzee, Can. Ent., xl, p. 159, 1908.

a. var. repleta Fieb.

- Fieber, Revue d'Ent., iv, p. 49, 1885.
 Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Macrosteles*.
americana Van Duzee, Can. Ent., xxiii, p. 169, 1891.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
 Slosson, Ent. News, xiii, p. 321, 1902.
 Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.
 Localities: N. H., N. Y., Pa., Tenn., Ia., Colo.

2357. *Cicadula laeta* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 360, 1876; iii, p. 473, 1877, *Jassus*.
 Van Duzee, Can. Ent., xxiv, p. 268, 1892, *Thamnotettix*(?).
 Van Duzee, Psyche, vi, p. 306, 1892, *Thamnotettix*.
 Gillette and Baker, Hemip. Colo., p. 98, 1895, *Thamnotettix*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
vanduzeei Gillette and Baker, Hemip. Colo., p. 103, 1895, *Eutettix*.
 Localities: Colo., Calif.

2358. *Cicadula variata* (Fall.)

- Fallén, Acta Holm, xxvii, p. 34, 1806, *Cicada*.
 Fallén, Hemip. Suec., Cicad., p. 48, 1826, *Cicada*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 70, 1835, *Jassus*.
 Kirschbaum, Cicad. v. Wiesbd., p. 99, 1868, *Thamnotettix*.
 Sahlberg, Cicad., p. 250, 1871, *Limotettix*.
 Fieber, Revue d'Ent., iv, p. 51, 1885.
 Van Duzee, Psyche, vi, p. 305, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
 Gillette and Baker, Hemip. Colo., p. 107, 1895.
 Slosson, Ent. News, vii, p. 265, 1896.
 Melichar, Cicad. Mitt. Eur., p. 312, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 185, pl. 21, fig. 6, 1896.
 Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
 Van Duzee, Can. Ent., xl, p. 159, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 94, 1916.
fumatus Herrich-Schaeffer, Fauna Germ., fase. 153, 5, 1838, *Jassus*.
 Localities: Quebec, Ont., Me., N. H., Conn., N. Y., N. J., Pa., Ohio,
 Tenn., Kans., Colo.

2359. *Cicadula lepida* Van D.

Van Duzee, Can. Ent., xxvi, p. 139, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 94, 1916.

Localities: N. Y., Tenn., Kans.

2360. *Cicadula suffusa* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 146, 1915.

Localities: Ont., Me., Ill.

2361. *Cicadula arcuata* G. & B.

Gillette and Baker, Hemip. Colo., p. 105, 1895.

Van Duzee, Can. Ent., xl, p. 159, 1908.

†*lepida*(?) Van Duzee, Can. Ent., xxxviii, p. 411, 1906.

Localities: Quebec, Ont., Mass., Colo., Br. Col.

2362. *Cicadula sexnotata* (Fall.)

Fallén, Acta Holm., xxvii, p. 34, 1906, *Cicada*.

Fallén, Hemip. Succ., Cicad., p. 47, 1826, *Cicada*.

Burmeister, Genera Ins., pl. 14, 1838, *Jassus*.

Zetterstedt, Ins. Lapp., column 297, 1840.

Stål, Stet. Ent. Zeit., xix, p. 194, 1858, *Thamnotettix*.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 504, 1866, *Macrosteles*.

Kirschbaum, Cicad. v. Wiesbd., p. 95, 1868, *Thamnotettix*.

Sahlberg, Cicad., p. 247, 1871, *Limotettix*.

Fieber, Revue d'Ent., iv, p. 47, 1885.

Edwards, Trans. Ent. Soc. Lond. for 1888, p. 76, *Limotettix*.

Woodworth, Psyche, v, p. 75, 1888.

Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.

Van Duzee, Psyche, vi, p. 305, 1892.

Slosson, Ent. News, v, p. 5, 1894.

Gillette and Baker, Hemip. Colo., p. 107, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 73, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Van Duzee, Can. Ent., xl, p. 159, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Osborn, U. S. Dept. Agr., Bur. Ent., Bul. 108, p. 97, fig. 27, 1912.

Van Duzee, Can. Ent., xlv, p. 328, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 248, p. 59, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916.

4-*lineata* Forbes, Rept. Ill. St. Ent., xiv, p. 68, pl. 5, fig. 4, 1884

Van Duzee, Can. Ent., xxi, p. 9, 1889.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Davis, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 1, 1893.

Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., D. C., N. C., S. C., Ga., Fla., Ala., Miss., Ohio, Tenn., Mich., Ind., Ill., Tenn., N. D., S. D., Ia., Wyo., Mont., Kans., Ark., Okl., Colo., N. Mex., Texas, Ariz., Calif., Wash., Br. Col., Alaska.

2363. *Cicadula pallida* Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 146, 1915.

Locality: Me.

2364. *Cicadula divisa* (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 472, 1877, *Jassus*.

Gillette and Baker, Hemip. Colo., p. 106, 1895.

Slosson, Ent. News, xiii, p. 321, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Localities: N. H., Pa., Colo.

2365. *Cicadula fascifrons* (Stål)

Stål, Stet., Ent. Zeit., xix, p. 194, 1858, *Thamnotettix*.

Fieber, Revue d'Ent., iv, pp. 48, 57, 1885.

Edwards, Ent. Mo. Mag., xxvii, p. 31, 1891.

Ashmead, Harriman Alaska Exped., viii, p. 133, 1904.

Matsumura, Termes. Fuzet., xxv, p. 363, 1910.

warioni Lethierry, Soc. d'Hist. Nat. Moselle for 1879.

Fieber, Revue d'Ent., iv, pp. 53, 58, 1885.

Horvath, Termes Fuzet., xiv, p. 366, 1899.

Locality: Alaska.

2366. *Cicadula lineatifrons* (Stål)

Stål, Stet. Ent. Zeit., xix, p. 195, 1858, *Thamnotettix*.

Fieber, Revue d'Ent., iv, pp. 85, 109, 1885, *Thamnotettix*.

Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.

Van Duzee, Can. Ent., xi, p. 159, 1909.

Localities: Quebec, Alaska.

2367. *Cicadula ungae* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.

Locality: Alaska.

2368. *Cicadula slossoni* Van D.

Van Duzee, Can. Ent., xxv, p. 281, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.

Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.

Localities: Ont., Me., N. H., N. Y., N. C., Br. Col.

2369. *Cicadula pоторia* Ball

Ball, Can. Ent., xxxii, p. 346, 1900.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.

Localities: Me., N. Y., Ia.

[*Cicadula macgillivrayi* Baker MS]

Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905.

Locality: N. Y.

Genus **Balclutha** Kirk.Haplotype *punctatus* Thunb.Kirkaldy, Entomologist, xxxiii, p. 243, 1900 (n.n. for *Gnathodus* Fieb.).

Distant, Fauna Brit. Ind., Rhyn., iv, p. 268, 1908.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916.

|| *Gnathodus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866 (type *punctatus* Thunb.).

Sahlberg, Cicad., pp. 70, 203, 1871.

Fieber, Cicad. d'Eur., i, p. 118, 1875; ii, pl. 12, 1876.

Mayr, Tabellen, p. 31, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1888, p. 77.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.

Baker, Can. Ent., xxviii, p. 35, 1896 (synopsis of Am. species).

Melichar, Cicad. Mitt. Eur., p. 313, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 190, 1896.

Matsumura, Termes. Fuzet., xxv, p. 356, 1902.

2370. **Balclutha punctata** (Thunb.)Thunberg, Acta Upsala, iv, p. 21, 1782, *Cicada*.Fallén, Hemip. Suec., Cicad., p. 55, 1826, *Cicada*.Walker, List Homop., iii, p. 877, 1851, *Jassus*.Flor, Rhyn. Livl., ii, p. 320, 1861, *Jassus*.Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866, *Gnathodus*.Kirschbaum, Cicad. v. Wiesbd., p. 90, 1868, *Thamnotettix*.Sahlberg, Cicad., p. 204, 1871, *Gnathodus*.Edwards, Trans. Ent. Soc. Lond. for 1888, p. 77, *Gnathodus*.Provancher, Pet. Faune Ent. Can., iii, p. 301, 1890, *Typhlocyba*.Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Gnathodus*.Baker, Can. Ent., xxviii, p. 41, 1896, *Gnathodus*.Melichar, Cicad. Mitt. Eur., p. 314, pl. 12, figs. 5-8, 1896, *Gnathodus*.Edwards, Hemip. Homop. Brit. Isds., p. 191, pl. 21, fig. 10, 1896, *Gnathodus*.

Matsumura, Termes. Fuzet., xxv, p. 358, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904, *Gnathodus*.Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus*.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 368, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 248, p. 79, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.

clypeata Curtis, Brit. Ent., xiv, pl. 640, 1837, *Eupteryx*.*spretta* Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula*.[*Typhlocyba vernalis* Fitch MS] in collections.*rosca* Provancher, Nat. Can., iv, p. 378, 1872, *Typhlocyba*.*jacosa* Provancher, Pet. Faune Ent. Can., iii, p. 300, 1890, *Typhlocyba*.Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., N. C.,
Tenn., Mich., Mo., Colo., Br. Col.2371. **Balclutha osborni** Van D.Van Duzee, Check List Hemip., p. 75, 1916 (n.n. for *viridis* Osb.)|| *viridis* Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Gnathodus*.

Van Duzee, Can. Ent., xxxviii, p. 411, 1906.

Moore, Can. Ent., xxxix, p. 190, 1907.

Localities: Quebec, Ont., N. Y.

2372. *Balclutha confusa* (G. & B.)

Gillette and Baker, Hemip. Colo., p. 104, 1895, *Gnathodus*.

Baker, Can. Ent., xxviii, p. 40, 1896, *Gnathodus*.

Localities: Colo., Texas.

2373. *Balclutha impicta* (Van D.)

Van Duzee, Can. Ent., xxiv, p. 113, 1892, *Gnathodus*.

Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus*.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904, *Gnathodus*.

Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.

a. var. *flavus* (Bak.)

Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus*.

b. var. *medius* (Bak.)

Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.

Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla.,

Ohio, Tenn., Ill., Mo., Kans., Calif., Wash.

2374. *Balclutha occidentalis* (Bak.)

Baker, Can. Ent., xxviii, p. 41, 1896, *Gnathodus*.

Locality: Wash.

2375. *Balclutha manitou* (G. & B.)

Gillette and Baker, Hemip. Colo., p. 105, 1895, *Gnathodus*.

Baker, Can. Ent., xxviii, p. 39, 1896, *Gnathodus*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus*.

Locality: Colo.

2376. *Balclutha livingstoni* (Bak.)

Baker, Can. Ent., xxviii, p. 42, 1896, *Gnathodus*.

Locality: Vancouver Isd.

Genus *Eugnathodus* Bak.

Orthotype *abdominalis* (Van D.)

Baker, Invert. Pacifica, i, p. 1, 1903.

2377. *Eugnathodus abdominalis* (Van D.)

Van Duzee, Can. Ent., xxiv, p. 113, 1892, *Gnathodus*.

Gillette and Baker, Hemip. Colo., p. 104, 1895, *Gnathodus*.

Baker, Can. Ent., xxviii, p. 36, 1896, *Gnathodus*.

- Baker, Invert. Pacifica, i, p. 2, 1903.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916, *Balclutha*.

a. var. magnus Bak.

- Baker, Invert. Pacifica, i, p. 2, 1903.
 Localities: N. Y., N. J., Fla., Ohio, Tenn., Kans., Texas, Ill., Colo.,
 Calif., Br. Col. (the var. from Nicaragua).

2378. *Eugnathodus nevadensis* Bak.

- Baker, Invert. Pacifica, i, p. 1, 1903.
 Locality: Nev.

TRIBE TYPHLOCYBINI (Kirschb.)

- Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868, Subfam. *Typhlocybidæ*.
 Sahlberg, Cicad., p. 69, 1871, Tribe *Typhlocybides*.
 Fieber, Kat. Europ. Cicad., p. 14, 1872, *Typhlocybac*.
 Fieber, Cicad. d'Europ., i, p. 118, 1875, *Typhlocybac*.
 Fieber, Revue d'Ent., iii, p. 40, 1884 (monograph European species).
 Puton, Cat. Hemip. Palae., p. 86, 1886, Tribe *Typhlocybini*.
 Woodworth, Psyche, v, p. 211, 1889, Group *Typhlocybini*.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, Subfam. *Typhlocybina*.
 Melichar, Cicad. Mitt. Europ., p. 132, 1896, Subfam. *Typhlocybini*.
 Oshanin, Verz. Palae. Hemip., ii, p. 187, 1907, Subfam. *Typhlocybina*.
 Distant, Fauna Br. Ind., Rhyn., iv, p. 399, 1908, Subfam. *Typhlocybinae*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, Subfam. *Typhlocybinae*.
 Oshanin, Kat. Palae. Hemip., p. 111, 1912, Subfam. *Typhlocybinae*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915. [(Subfamily.)
Eupteryginæ Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 1, p. 356, 1906.]

DIVISION EMPOASCARIA Dist.

- Distant, Fauna Br. Ind., Rhyn., iv, p. 399, 1908.

Genus *Protalebra* Bak.

Orthotype *curvilinea* Gill.

- Baker, Psyche, viii, p. 402, 1899.

2379. *Protalebra brasiliensis* Bak.

- Baker, Psyche, viii, p. 405, 1899.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
 Locality: Fla.

Genus *Alebra* Fieb.

Logotype *albostricella* (Fall.)

- Fieber, Kat. Europ. Cicad., p. 14, 1872 (n.n. for *Compsus* Fieb.).
 Fieber, Cicad. d'Europ., i, p. 125, 1875; ii, pl. 13, 1876.

- Fieber, Revue d'Ent., iii, p. 40, 1884.
 Mayr, Tabellen, p. 36, 1884.
 Woodworth, Psyche, v, p. 213, 1889.
 Melichar, Cicad. Mitt. Europ., p. 316, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 192, pl. 2, fig. 18, 1896.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 710, 1898.
 Baker, Psyche, viii, p. 402, 1899.
 †*Typhlocyba* Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
 [Compsus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 507, 1866.
 Sahlberg, Cicad., p. 155, 1871.

2380. *Alebra albostriella* (Fall.)

- Fallén, Hemip. Suec., Cicad., p. 54, 1826, *Cicada*.
 Flor, Rhyn. Livl., ii, p. 382, 1861, *Typhlocyba*.
 Kirschbaum, Cicad. v. Wiesbd., p. 177, 1868, *Typhlocyba*.
 Sahlberg, Cicad., p. 156, 1871, *Compsus*.
 Fieber, Revue d'Ent., iii, p. 40, 1884.
 Melichar, Cicad. Mitt. Europ., p. 316, pl. 12, figs. 9, 10, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 193, pl. 22, fig. 1, 1896.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898.
 Horvath, Ann. Mus. Natl. Hung., i, p. 556, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
 Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 97, 1916.
 elegantula Zetterstedt, Fauna Lapp., i, p. 536, 1828, *Cicada*.
 Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula*.
 pallidula Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba*.
 §*pallida* Woodworth, Psyche, v, p. 213, 1889.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 309, 1894.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898.
 Oshanin, Verz. Palae. Hemip., ii, p. 187, 1907.

a. var. *fulveola* (H. S.)

- Herrich-Schaeffer, Fauna Germ., exiv, No. 16, 1839, *Typhlocyba*.
 Flor, Rhyn. Livl., ii, p. 384, 1860, *Typhlocyba*.
 Sahlberg, Cicad., p. 158, 1871, *Compsus*.
 Fieber, Revue d'Ent., iii, p. 41, 1884.
 Melichar, Cicad. Mitt. Europ., p. 317, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 193, pl. 22, fig. 2, 1896.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 714, 1898.
 flavocephala Kupka, Ent. Nachr., xxv, p. 33, 1899.
 aurca Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898 (*aurata*).
 Oshanin, Kat. Palae., Hemip., p. 111, 1912 (*aurcata*).
 Localities: Ont., Mass., N. Y., Pa., Va., N. C., Ohio, Tenn., Mich., Ill.

2381. *Alebra binotata* (Walsh)

- Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba*.
 [May not be distinct from preceding.]
 Locality: Ill.

2382. *Alebra fumida* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 714, 1898.

Locality: N. Y.

Genus *Dikraneura* HardyHaplotype *variata* Hardy

Hardy, Trans. Tyneside Nat. Field Club, i, p. 423, 1850.

Puton, Cat. Hémip. Palae., edn. 3, p. 86, 1886, *Dicraneura*.Woodworth, Psyche, v, p. 213, 1889, *Dicraneura*.Van Duzee, Trans. Am. Ent. Soc., xix, p. 311, 1894, *Dicraneura*.Melichar, Cicad. Mitt. Europ., p. 320, 1896, *Dicraneura*.Gillette, Proc. U. S. Natl. Mus., xx, p. 715, 1898, *Dicraneura*.

Kirkaldy, Entomol., xxxiv, p. 6, 1901.

Chloroneura Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.||*Notus* Fieber, Verh. Zool.-Bot. Ges. Wien., xvi, p. 508, 1866.

Sahlberg, Cicad., p. 162, 1871.

‡*Dicraneura* Douglas, Ent. Mo. Mag., xii, p. 27, 1875.2383. *Dikraneura maculata* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 716, 1898.

Localities:

2384. *Dikraneura cruentata* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 717, 1898.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 150, 1915.

Localities: Me., N. Y., Colo., Vane. Isds.

2385. *Dikraneura unipuncta* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 718, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Locality: Calif.

2386. *Dikraneura mali* (Prov.)Provancher, Pet. Faune Ent. Can., iii, p. 298, 1890, *Erythroneura*.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

communis Gillette, Proc. U. S. Natl. Mus., xx, p. 718, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 150, 1915.

Localities: Quebec, Me., N. Y., Ohio, Mich., Ill., Colo.

2387. *Dikraneura abnormis* (Walsh)Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864, *Chloroneura*.

Woodworth, Psyche, v, p. 213, 1889.

Gillette, Proc. U. S. Natl. Mus., xx, p. 719, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 98, 1916.

a. var. *rufula* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 720, 1898.

Localities: Conn., Pa., D. C., N. C., Ga., Ill., Tenn., Mo., Kans., Texas.

2387½. *Dikraneura flavipennis* (Zett.)

Zetterstedt, Fauna Lapp., p. 292, 1828, *Cicada*.

Zetterstedt, Ins. Lapp., column 292, 1840, *Cicada*.

Flor, Rhyn. Livl., ii, p. 388, 1861, *Typhlocyba*.

Kirschbaum, Cicad. v. Wiesbd., p. 180, 1868, *Typhlocyba*.

Sahlberg, Cicad., p. 163, 1871, *Notus*.

Fieber, Revue d'Ent., iii, p. 51, 1884, *Notus*.

Edwards, Trans. Ent. Soc. Lond. for 1888, p. 81.

Melichar, Cicad. Mitt. Eur., p. 323, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 195, pl. 22, fig. 4, 1896.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

crichaleca Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 183, *Cicadula*.

armata Buckton, Monog. Brit. Cicad., ii, p. 107, pl. 63, fig. 3, 1891.

Localities: N. Y., Ia. (Europe.)

2388. *Dikraneura cockerellii* Gill.

Gillette, Psyche, vii, Suppl., 1, p. 14, 1895.

Cockerell, N. Mex. Agr. Exp. Sta., Bul. 19, p. 114, 1896.

Gillette, Proc. U. S. Natl. Mus., xx, p. 720, 1898.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Localities: N. Mex., Calif.

2389. *Dikraneura kunzei* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 721, 1898.

Locality: Ariz.

2390. *Dikraneura sanguinea* (G. & B.)

Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba*.

Locality: Colo.

2391. *Dikraneura tricolor* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Locality: Calif.

2392. *Dikraneura carneola* (Stål)

Stål, Stet. Ent. Zeit., xix, p. 196, 1858, *Typhlocyba*.

Fieber, Kat. Europ. Cicad., p. 14, 1872, *Notus*.

Fieber, Revue d'Ent., iii, p. 43, 1884, *Erythria*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 722, 1898.

Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

?Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 151, 1915.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

scarinata Woodworth, Psyche, v, p. 213, 1889.

Van Duzee, Trans. Am. Ent. Soc., xxi, p. 311, 1894.

Localities: Me.(?), Ariz., Calif., Wash., Vanc. Isd., Alaska.

2393. *Dikraneura fieberi* (Loew)

Loew in Then, Kat. Ostr. Cicad., p. 39, 1886, *Notus*.

Melichar, Cicad. Mitt. Eur., p. 325, 1896.

Gillette, Proc. U. S. Natl. Mus., xx, p. 722, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 151, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 98, 1916.

†*forcipatus* Fieber, Revue d'Ent., iii, p. 53, 1884, *Notus*.

Localities: Me., Mass., N. Y., N. J., Pa., D. C., N. C., Ohio, Tenn., Ill., Ia., Kans. (Palearctic.)

Genus **Empoasca** Walsh

Logotype *viridescens* Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.

Woodworth, Psyche, v, p. 213, 1889.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 309, 1894.

Gillette, Proc. U. S. Natl. Mus., xx, p. 724, 1898.

Distant, Fauna Br. Ind., Rhyn., iv, p. 401, 1908 (names *viridescens* type).

||*Chloria* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866.

Kybos Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866.

Fieber, Revue d'Ent., iii, p. 65, 1884.

†*Cicadula* Sahlberg, Cicad., p. 158, 1871.

Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908.

Chlorita Fieber, Kat. Europ. Cicad., p. 14, 1872 (n.n. for *Chloria* Fieb.).

Cybus Douglas, Ent. Mo. Mag., xii, p. 26, 1875 (emendation of *Kybos*).

2394. **Empoasca trifasciata** Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 726, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 99, 1916.

Localities: N. Y., Ohio, Tenn., Ill., Ia., Kan.

2395. **Empoasca smaragdula** (Fall.)

Fallén, Acta Holm. for 1806, p. 37, *Cicada*.

Fallén, Hemip. Suce., Cicad., p. 53, 1826, *Cicada*.

Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula*.

Flor, Rhyn. Livl., ii, p. 393, 1861, *Typhlocyba*.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866, *Kybos*.

Kirschbaum, Cicad. v. Wiesbd., p. 178, 1868, *Typhlocyba*.

Sahlberg, Cicad., p. 159, 1871, *Cicadula*.

Fieber, Revue d'Ent., iii, p. 66, 1884, *Kybos*.

Van Duzee, Psyche, v, p. 241, 1889, *Kybos*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Kybos*.

Gillette and Baker, Hemip. Colo., p. 110, 1895.

Melichar, Cicad. Mitt. Europ., p. 327, pl. 12, figs. 22-25, 1896, *Kybos*.

Edwards, Hemip. Homop. Brit. Isds., p. 197, pl. 22, fig. 8, 1896, *Kybos*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 725, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.

viridipes Curtis, Brit. Ent., xiv, pl. 640, 1837, *Eupteryx*.

Localities: Ont., Me., N. Y., Pa., Mo., Colo., Calif. (Palearctic.)

2396. *Empoasca aureoviridis* (Uhler.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 474, 1877, *Typhlocyba*.

Woodworth, Psyche, v, p. 213, 1889.

Gillette, Proc. U. S. Natl. Mus., xx, p. 730, 1898.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.

Localities: Tenn., Colo.

2397. *Empoasca unicolor* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 731, 1898.

Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 159, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.

Localities: Quebec, Ont., Me., N. H., N. Y., D. C., Fla., Ohio, Mich., Colo.

2398. *Empoasca obtusa* Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.

Gillette and Baker, Hemip. Colo., p. 109, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 733, 1898.

Slosson, Ent. News, xiii, p. 321, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Van Duzee, Can. Ent., xl, p. 159, 1908.

Webster, Ent. News, xxi, p. 265, 1910 (habits).

Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 153, 1915.

Leonard, Ent. News, xxvii, p. 49, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.

Localities: Quebec, Me., N. H., N. Y., N. J., Pa., D. C., Ohio, Tenn., Ill., Ia., Kans., Colo.

2399. *Empoasca maligna* (Walsh)

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Chloroncura*.

Woodworth, Psyche, v, p. 213, 1889.

Localities: Ill.

2400. *Empoasca unica* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 340, 1890, *Typhlocyba*.

Van Duzee, Can. Ent., xlv, p. 329, 1912.

splendida Gillette, Proc. U. S. Natl. Mus., xx, p. 731, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.

Localities: Quebec, Ont., N. Y., Pa., Md., N. C., Tenn., Brit. Col.

2401. *Empoasca atrolabes* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 736, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.

Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 159, 1908.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.

Localities: Quebec, Ont., Me., N. Y., Mich., Colo.

2402. *Empoasca albolinea* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 732, 1898.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Localities: Va., Ill., Kan.

2403. *Empoasca denticula* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 734, 1898.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.

Localities: Colo., Tenn.

2404. *Empoasca pergandei* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 735, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Localities: Mass., Pa.

2405. *Empoasca incisa* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 735, 1898.

Localities: Colo.

2406. *Empoasca coccinea* (Fitch)Fitch, Homop. N. Y. St. Cab., p. 63, 1851, *Empoa*.Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba*.

Localities: N. Y., Pa.

2407. *Empoasca clypeata* G. & B.

Gillette and Baker, Hemip. Colo., p. 108, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 727, 1898.

Localities: Colo.

2408. *Empoasca livingstoni* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 728, 1898.

Localities: Wash., Van. Isd.

2409. *Empoasca nigra* G. & B.

Gillette and Baker, Hemip. Colo., p. 108, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 728, 1898.

Localities: Colo.

2410. *Empoasca pulchella* G. & B.

Gillette and Baker, Hemip. Colo., p. 109, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 729, 1898.

Localities: Colo.

2411. *Empoasca pura* (Stål)Stål, Stet. Ent. Zeit., xix, p. 195, 1858, *Typhlocyba*.Fieber, Revue d'Ent., iii, p. 58, 1884, *Chlorita*.

Woodworth, Psyche, v, p. 213, 1889.

Gillette and Baker, Hemip. Colo., p. 110, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 734, 1898.

Ashmead, Harriman Alaska Exped., viii, p. 135, 1904, *Chloroncura*.

Localities: Vanc. Isd., Alaska.

2412. *Empoasca radiata* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 738, 1898.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.

Localities: Colo., Tenn., Mo.

2413. *Empoasca robusta* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 739, 1898.

Locality: Calif.

2414. *Empoasca nigroscuta* G. & B.

Gillette and Baker, Hemip. Colo., p. 108, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 739, 1898.

a. var. typhlocyboides G. & B.

Gillette and Baker, Hemip. Colo., p. 110, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 740, 1898.

Localities: Colo., Utah.

2415. *Empoasca pallida* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 741, 1898.

Locality: N. C.

2416. *Empoasca snowi* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 741, 1898.

Locality: N. Mex.

2417. *Empoasca aspersa* G. & B.

Gillette and Baker, Hemip. Colo., p. 107, 1895.

Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Cicadula*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

†*tessellata* Gillette, Proc. U. S. Natl. Mus., xx, p. 742, 1898.

Localities: Colo., Utah, Calif.

2418. *Empoasca alboneura* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 743, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.

Localities: N. Y., D. C., Va., Miss., Tenn., Neb., Kan., Colo., Calif.

2419. *Empoasca alboscripta* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Locality: Calif.

2420. *Empoasca tumida* Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 744, 1898.

Locality: Colo.

2421. *Empoasca mali* (LeB.)LeBaron, Prairie Farmer, xiii, p. 330, 1853, *Tettigonia*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Gillette, Proc. U. S. Natl. Mus., xx, p. 744, 1898.

Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.

Van Duzee, Can. Ent., xxxviii, p. 411, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.

Webster, Ent. News, xxi, p. 266, 1910 (habits).

Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.

Osborn, U. S. Dept. Agr., Bur. Ent., Bul. 108, p. 100, fig. 28, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.

Essig, Inj. Benef. Ins. Calif., edn. 2, p. 62, 1915.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 153, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

Gibson, Can. Ent., xlviii, p. 178, 1916.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 102, 1916.

albopicta Forbes, 13th Rept. Ill. St. Ent., p. 181, pl. 14, 1884, *Empoa*.

Woodworth, Psyche, v, p. 213, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.

Localities: Ont., Me., N. Y., N. J., Pa., D. C., Va., N. C., S. C., Fla.,
Miss., Ohio, Ky., Tenn., Mich., Ind., Ill., Mo., Kans., Calif.
(West Indies.)

2422. *Empoasca flavescens* (Fabr.)

Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada*.

Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada*.

Fallén, Hemip. Suec., Cicad., p. 53, 1826, *Cicada*.

Flor, Rhyn. Livl., ii, p. 394, 1861, *Typhlocyba*.

Kirschbaum, Cicad. v. Wiesbd., p. 178, 1868, *Typhlocyba*.

Sahlberg, Cicad., p. 161, 1871, *Cicadula*.

Fieber, Revue d'Ent., iii, p. 57, 1884, *Chlorita*.

Melichar, Cicad. Mitt. Eur., p. 326, 1896, *Chlorita*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 745, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 405, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 102, 1916.

Localities: N. Y., D. C., Miss., Fla., Mich., Tenn., Ill., Ia., Kans.,
Colo., N. Mex., Calif. (West Indies, Palearctic.)

2423. *Empoasca viridescens* Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.

Gillette and Baker, Hemip. Colo., p. 111, 1895.

Gillette, Proc. U. S. Natl. Mus., xx, p. 347, 1898.

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.

consobrina Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.

Localities: N. Y., N. C., Ga., Fla., Miss., Ill., Kans., Colo., Ariz.,
Calif.

2424. *Empoasca birdii* Godg.

Godg., Ent. News, i, p. 123, 1890.

Gillette, Proc. U. S. Natl. Mus., xx, p. 746, 1898 (as var. of *flavescens*).

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.

Localities: N. Y., Mich., Ill., Ia.

2425. *Empoasca malefica* (Walsh)Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Chloromura*

Locality: Ill.

DIVISION *TYPHLOCYBARIA* Dist.

Distant, Fauna Br. Ind., Rhyn., iv, p. 408, 1908.

Genus *Typhlocyba* Germ.Logotype *aurata* (Linn.)

Germar, Silb. Revue Ent., i, p. 180, 1833.

Burmeister, Handb. d. Ent., ii, p. 107, 1835.

Blanchard, Hist. des Ins., Hémip., p. 199, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *ulmi* Linn.

Burmeister, Genera Ins., i, pl. 13, 1841.

[pseudotype].

Spinola, Tavola Sinot., p. 59, 1850.

Flor, Rhyn. Livl., ii, p. 369, 1861.

Kirschbaum, Cicad. v. Wiesbd., pp. 16, 176, 1868.

Fieber, Kat. Europ. Cicad., p. 14, 1872.

Fieber, Revue d'Ent., iii, p. 92, 1884.

Eupteryx Curtis, Ent. Mag., i, p. 192, 1833 (orthotype *picta* Fabr.).

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.

Marshall, Ent. Mo. Mag., iii, p. 197, 1867.

Sahlberg, Cicad., p. 189, 1871.

Douglas, Ent. Mo. Mag., xi, p. 198, 1875.

Lethierry, Revue d'Ent., iii, p. 92, note, 1884.

Puton, Cat. Hemip. Palae., edn. 3, p. 87, 1886.

Woodworth, Psyche, v, p. 213, 1889.

Melichar, Cicad. Mitt. Europ., p. 328, 1896.

Gillette, Proc. U. S. Natl. Mus., xx, p. 748, 1898.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 416, 1908 (names *atropunctata*

Oshanin, Verz. Palae. Hemip., ii, p. 198, 1908.

[Goeze type].

Oshanin, Kat. Palae. Hemip., p. 112, 1912.

2426. *Typhlocyba collina* Flor

Flor, Rhyn. Livl., ii, p. 433, 1861.

Kirschbaum, Cicad. v. Wiesbd., p. 196, 1868.

Fieber, Revue d'Ent., iii, p. 109, 1884, (as var. of *melissae* Curt.).Melichar, Cicad. Mitt. Europ., p. 340, 1896, *Eupteryx*.Edwards, Hemip. Homop. Brit. Isds., p. 204, pl. 23, fig. 4, 1896, *Eupteryx*.Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 511, 1912, *Eupteryx*.*quinquemaculata* Baker, Invert. Pacifica, i, p. 8, 1903, *Eupteryx*.

Localities: N. Y., Calif.

2427. *Typhlocyba vanduzeei* (Gill.)Gillette, Proc. U. S. Natl. Mus., xx, p. 748, 1898, *Eupteryx*.Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Eupteryx*.Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Eupteryx*.

Localities: N. Y., Pa.

2428. *Typhlocyba nigra* (Osb.)Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905, *Eupteryx*.Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 155, 1915, *Eupteryx*.

Localities: Me., N. Y., Ohio.

2429. *Typhlocyba flavoscuta* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 749, 1898, *Eupteryx*.
 Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Eupteryx*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Eupteryx*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Eupteryx*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Eupteryx*.
 Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Eupteryx*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Localities: Quebec, N. H., N. Y., N. J., Pa., Fla.

Genus *Empoa* FitchLogotype *querci* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
Anomia Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.
 Fieber, Revue d'Ent., iii, p. 120, 1884.
 †*Typhlocyba* Sahlberg, Cicad., p. 172, 1871 (part).
 Douglas, Ent., Mo. Mag., xi, p. 198, 1875 (names *lineatella* Fall. pseudo-Lethierry, Revue d'Ent., iii, p. 120, note, 1884. [type].
 Puton, Cat. Hemip. Palae., edn. 3, p. 88, 1886 (part).
 Woodworth, Psyche, v, p. 213, 1889 (part).
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 311, 1894 (part).
 Meliehar, Cicad. Mitt. Eur., p. 341, 1896 (part).
 Gillette, Proc. U. S. Natl. Mus., xx, p. 750, 1898 (part).
 Distant, Fauna Brit. Ind., Rhyn., iv, p. 409, 1908 (names *quercus* Fitch
 Oshanin, Verz. Palae. Hemip., ii, p. 208, 1908. [type].
 Oshanin, Kat. Palae. Hemip., p. 113, 1912.

2430. *Empoa querci* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
 Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 202, 1894, *Typhlocyba*.
 Slosson, Ent. News, vii, p. 265, 1896, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 766, 1898, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba*.
 Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 157, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba*.

Localities: Ont., Me., N. H., N. Y., Ohio, Tenn.

a. var. gillettei n.n.

- ‡*bifasciata* Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba*.
 Slosson, Ent. News, vii, p. 265, 1896, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 766, 1898, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba*.
 Van Duzee, Can. Ent., xl, p. 160, 1908, *Typhlocyba*.
 Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba*.

b. var. 6-notata Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.

Locality: Calif.

c. var. morgani (DeL.)

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 104, 1916, *Typhlocyba*.

Localities: Tenn., Ohio.

2430¹/₂. **Empoa nitidula** (Fabr.)

Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada*.

Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada*.

Flor, Rhyn. Livl., ii, p. 407, 1861, *Typhlocyba*.

Kirschbaum, Cicad. v. Wiesbd., p. 185, 1868, *Typhlocyba*.

Sahlberg, Cicad., p. 177, 1871, *Typhlocyba*.

Fieber, Revue d'Ent., iii, p. 123, 1884, *Anomia*.

Edwards, Hemip. Homop. Brit. Isds., p. 219, pl. 25, fig. 5, 1896, *Typhlocyba*.

Oshanin, Verz. Palae. Hemip., ii, p. 209, 1906, *Typhlocyba*.

Slosson, Ent. News, xvii, p. 326, 1906, *Typhlocyba*.

bifasciata Boheman, Of. Vet. Akad. Forh., ix, p. 79, 1852, *Typhlocyba*.

Localities: N. H. (Europe.)

2430³/₄. **Empoa aureotecta** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 93, 1917 (figures).

Locality: Wis.

2431. **Empoa australis** (Walsh)

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Erythroneura*.

Woodworth, Psyche, v, p. 214, 1889.

Locality: Ill.

2432. **Empoa flavomarginata** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 768, 1898, *Typhlocyba*.

Locality: Colo.

2433. **Empoa ulmi** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Cicada*.

Linnaeus, Fauna Suec., edn. 2, No. 900, 1761, *Cicada*.

Linnaeus, Syst. Nat., edn. 12, ii, p. 711, 1767, *Cicada*.

Fabricius, Ent. Syst., iv, p. 45, 1794, *Cicada*.

Fabricius, Syst. Rhyng., p. 78, 1803, *Cicada*.

Fallén, Hemip. Suec., Cicad., p. 49, 1826, *Cicada*.

Burmeister, Handb. d'Ent., ii, p. 107, 1835, *Typhlocyba*.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840, *Typhlocyba*.

Flor, Rhyn. Livl., ii, p. 411, 1861, *Typhlocyba*.

Kirschbaum, Cicad. v. Wiesbd., p. 186, 1868, *Typhlocyba*.

Sahlberg, Cicad., p. 176, 1871, *Typhlocyba*.

Fieber, Revue d'Ent., iii, p. 127, 1884, *Anomia*.

Melichar, Cicad. Mitt. Europ., p. 348, pl. 12, figs. 31, 32, 1896, *Typhlocyba*.

Edwards, Hemip. Homop. Brit. Isds., p. 213, pl. 24, fig. 8, 1896, *Typhlocyba*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 769, 1898, *Typhlocyba*.

Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905.

Localities: Mass., R. I., N. Y., Ia.

2434. *Empoa commissuralis* (Stål)

- Stål, Stet. Ent. Zeit., xix, p. 196, 1858, *Typhlocyba*.
 Fieber, Revue d'Ent., iii, p. 67, 1884, *Kybos*.
 Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 769, 1898, *Typhlocyba*.
 Ashmead, Harriman Alaska Exped., viii, p. 135, 1904, *Empoasca*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba*.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
 Localities: Me., Colo., Calif., Vane. Isd., Alaska.

2435. *Empoa tenerima* (H. S.)

- Herrieh-Schaeffer, Fauna Germ., exxiv, No. 10a; cxiv, No. 16, 1834, *Typhlo-*
Kirschbaum, Cicad. v. Wiesbd., p. 185, 1868, *Typhlocyba*. [cyba.
 Sahlberg, Cicad., p. 178, 1871, *Typhlocyba*.
 Melichar, Cicad. Mitt. Europ., p. 349, 1896, *Typhlocyba*.
 Edwards, Hemip. Homop. Brit. Isds., p. 214, pl. 24, fig. 9, 1896, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 770, 1898, *Typhlocyba*.
 Slosson, Ent. News, ix, p. 251, 1898, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba*.
rubi Hardy, Trans. Tyneside Nat. Field Club, i, p. 417, 1850, *Typhlocyba*.
misella Boheman, Kong. Vet. Akad. Handl. for 1851, p. 122, *Typhlocyba*.
 Localities: Quebec, Ont., Me., N. H., N. Y., Mich., Colo.

2436. *Empoa lethierryi* (Edwds.)

- Edwards, Ent. Mo. Mag., xvii, p. 224, 1881, *Typhlocyba*.
 Melichar, Cicad. Mitt. Europ., p. 346, 1896, *Typhlocyba*.
 Edwards, Hemip. Homop. Brit. Isds., p. 216, pl. 30, fig. 8, 1896, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 771, 1898, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba*.
 Osborn, Me., Agr. Exp. Sta., Bul. 238, p. 157, 1915, *Typhlocyba*.
†rosae Kirschbaum, Cicad. v. Wiesbd., p. 184, 1868, *Typhlocyba*.
¶sulphurella Lethierry, Cat. Hemip., Dept. Nord., pp. 74, 79, *Anomia*.
 Fieber, Revue d'Ent., iii, p. 124, 1884, *Anomia*.
 Localities: Me., N. Y., Pa., Mich., Ia.

2437. *Empoa rosae* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Cicada*.
 Linnaeus, Fauna Suec., edn. 2, No. 902, 1761, *Cicada*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 428, 1762, *Cicada* (*Tettigonia*).
 Linnaeus, Syst. Nat., edn. 12, ii, p. 712, 1767, *Cicada*.
 Fabricius, Syst. Ent., p. 687, 1775, *Cicada*.
 Fabricius, Ent. Syst., iv, p. 45, 1794, *Cicada*.
 Walckenaer, Fauna Paris., ii, p. 328, 1802, *Cicada*.
 Burmeister, Handb. d. Ent., ii, p. 107, 1835, *Typhlocyba*.
 Zetterstedt, Ins. Lapp., column 300, 1840, *Cicadula*.
 Burmeister, Genera Ins., i, pl. 13, 1841, *Typhlocyba*.
 Flor, Rhyn. Livl., ii, p. 407, 1861, *Typhlocyba*.
 Kirschbaum, Cicad. v. Wiesbd., p. 184, 1868, *Typhlocyba*.

- Sahlberg, Cicad., p. 180, 1871, *Typhlocyba*.
 Fieber, Revue d'Ent., iii, p. 124, 1884, *Anomia*.
 Provancher, Pet. Faune Ent. Can., iii, p. 299, 1890.
 Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba*.
 Melichar, Cicad. Mitt. Europ., p. 345, 1896, *Typhlocyba*.
 Edwards, Hemip. Homop., Brit. Isds., p. 216, 1896, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 771, 1898, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba*.
 Webster, Ent. News, xxi, p. 267, 1910, *Typhlocyba* (habits).
 Smith, Cat. Ins. N. J., edn. 3, p. 107, *Typhlocyba*.
 Van Duzee, Can. Ent., xlv, p. 329, 1912, *Typhlocyba*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba*.
 ¶ *rosae* Harris, Rept. Ins. Mass., edn. 2, p. 182, 1852, *Tettigonia* (as new).
 Harris, Treat. Ins. Injur. Veg., edn. 3, p. 229, 1862, *Tettigonia*.
 Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 202, 1894, *Typhlocyba*.
 Van Duzee, Trans. Am. Ent. Soc., xix, p. 313, 1894, *Typhlocyba*.
 † *pteridis* Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 179, *Typhlocyba*.
 † *lactea* Douglas, Ent. Mo. Mag., xii, p. 77, 1875, *Typhlocyba*.
 Localities: Quebec, Ont., Me., Vt., Mass., N. Y., Pa., D. C., Ohio,
 Tenn., Mich., Kans., Ia., Colo., Calif., Vane. Isd.

2438. *Empoa fabae* (Harr.)

- Harris, Rept. Ins. Mass., p. 186, 1841, *Tettigonia*.
 Harris, Treat. Ins. Injur. Veg., edn. 3, p. 230, 1862, *Tettigonia*.
 Fitch, Homop. N. Y. St. Cab., p. 63, 1851, *Erythroneura*.
 Woodworth, Psyche, v, p. 213, 1889, *Empoasca*.
 Localities: Mass., N. Y., Ohio.

2439. *Empoa albicans* Walsh

- Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.
 Woodworth, Psyche, v, p. 214, 1879, *Typhlocyba*.
 Locality: Ill.

Genus *Erythroneura* Fitch

Logotype *tricineta* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 62, 1851.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
 Provancher, Pet. Faune Ent. Can., iii, p. 297, 1890 (in part).
 Oshanin, Kat. Palae. Hemip., p. 114, 1912 (names *tricineta* type).
 Zygina Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.
 Fieber, Cicad. d. Europ., i, p. 129, 1875; ii, p. 13, 1876.
 Fieber, Revue d'Ent., iii, p. 150, 1884 (synop. of species).
 Mayr, Tabellen, p. 40, 1884.
 Melichar, Cicad. Mitt. Europ., p. 351, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 219, 1896.
 Oshanin, Verz. Palae. Hemip., ii, p. 216, 1908.
 Idia Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.

2440. *Erythroneura trifasciata* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 343, 1825; Compl. Writ., ii, p. 259, *Tettigonia*. [gonia.]
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 805, 1855, *Tettigonia*.

Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 755, 1898, *Typhlocyba*.

Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.

Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba*.

Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba*.

Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba*.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 106, 1916, *Typhlocyba*.

Localities: N. Y., N. J., Pa., Tenn., Miss., Ill., Mo., Ia., Kan.

2441. *Erythroneura tricineta* Fitch

Fitch, Homop. N. Y. St. Cab., p. 63, 1851.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 392, 436, 1856.

Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 753, 1898, *Typhlocyba*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.

Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.

Gillette, Proc. U. S. Natl. Mus., xx, p. 753, 1898, *Typhlocyba*.

Slosson, Ent. News, xiii, p. 321, 1902, *Typhlocyba*.

Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.

Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba*.

Tucker, Univ. Kans. Sci. Bul., iv, p. 69, 1907, *Typhlocyba*.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 104, 1916, *Typhlocyba*.

Localities: Ont., N. H., N. Y., Pa., Md., N. C., Ohio, Tenn., Ill., Mo., Ia., Kan., Colo.

2442. *Erythroneura tunicarubra* (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 752, 1898, *Typhlocyba*.

Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 106, 1916, *Typhlocyba*.

Localities: Pa., Mich., Tenn.

2443. *Erythroneura hartii* (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 754, 1898, *Typhlocyba*.

Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.

Localities: Pa., Ill.

2444. *Erythroneura rubroscuta* (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 755, 1898, *Typhlocyba*.

Localities: Ill., Kan.

2444½. *Erythroneura osborni* (DeL.)

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 103, 1916, *Typhlocyba*.

Locality: Tenn.

2445. *Erythroneura comes* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 343, 1825; Compl. Writ., ii, p. 259,

Cooke, Inj. Ins. Orchard and Vineyard, p. 197, 1883.

[*Tettigonia*.]

- Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 759, 1898, *Typhlocyba*.
 Slingerland, Cornell Univ. Agr. Exp. Sta., Bul. 215, 1904, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Typhlocyba*.
 Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba*.
 Essig, Inj. Benef. Ins. Calif., edn. 2, p. 64, 1915.
 DeLong, Tenn. St. Bd. Ent., Bul. 106, 1916, *Typhlocyba*.

a. var. vitifex Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Provancher, Pet. Faune Ent. Can., iii, p. 299, 1890, *Typhlocyba*.
 Townsend, Can. Ent., xxiv, p. 196, 1892, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.

b. var. ziczac Walsh

- Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
 Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 761, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.

c. var. vitis (Harr.)

- Harris, Encyc. Am., viii, p. 43, 1831, *Tettigonia*.
 Harris, Rept. Ins. Mass., p. 184, 1841, *Tettigonia*.
 Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856.
 Harris, Treat. Ins. Inj. Veg., edn. 3, p. 227, 1862, *Tettigonia*.
 Saunders, Ins. Inj. to Fruits, p. 286, fig. 297, 1883.
 Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Provancher, Pet. Faune Ent. Can., iii, p. 298, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 761, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.

d. var. basilaris (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 344, 1825; Compl. Writ., ii, p. 269.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864. [*Tettigonia*].

- Gillette, Proc. U. S. Natl. Mus., xx, p. 760, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.
affinis Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.

e. var. *infusata* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

f. var. *rubra* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

g. var. *maculata* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.

h. var. *scutelleris* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

i. var. *octo-notata* Walsh

- Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 318, 1864.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 762, 1898, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.

j. var. *coloradensis* (Gill.)

- Gillette, Colo. Agr. Exp. Sta., Bul. 19, p. 16, 1892, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 763, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

k. var. *apicalis* (DeL.)

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.
 Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C.,
 N. C., Fla., Miss., Ohio, Tenn., Mich., Ill., Mo., Ncb., Kans.,
 Colo., N. Mex., Texas, Ariz., Calif., Br. Col.

2446. *Erythroneura illinoiensis* (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 758, 1898, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba*.
 Localities: N. C., Miss., Tenn., Mich., Ill., Mo.

2447. *Eurythroneura obliqua* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 342, 1825; Compl. Writ., ii, p. 259,
 Fitch, Homop. N. Y. St. Cab., p. 63, 1851. [Tettigonia.

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 435, 1856.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Provancher, Pet. Faune Ent. Can., iii, p. 340, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 756, 1898, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.
 Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 155, 1915, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

a. var. **dorsalis** (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 757, 1898, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

b. var. **noevus** (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 757, 1898, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

c. var. **fumida** (Gill.)

- Gillette, Proc. U. S. Natl. Mus., xx, p. 758, 1898, *Typhlocyba*.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
 DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

d. var. **clavata** (DeL.)

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.
 Localities: Quebec, Ont., Me., N. Y., Pa., D. C., Ohio, Tenn., Mich.,
 Ill., Mo., Kans., Ia., Colo., Calif.

2447^{1/2}. **Erythroneura nigridorsum** (DeL.)

- DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 110, 1916, *Typhlocyba*.
 Locality: Tenn.

2448. **Erythroneura vulnerata** Fitch

- Fitch, Homop. N. Y. St. Cab., p. 62, 1851.
 Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
 Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
 Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
 Provancher, Pet. Faune Ent. Can., iii, p. 299, 1890.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Typhlocyba*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
 Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
 Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
 Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.
 Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba*.
 Van Duzee, Can. Ent., xlv, p. 329, 1912.
 Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba*.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 110, 1916, *Typhlocyba*.

a. var. **nigra** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 765, 1898, *Typhlocyba*.

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Miss., Tenn., Mo., Ia., Kans., Colo., Ariz.

2449. **Erythroneura dentata** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 765, 1898, *Typhlocyba*.

Locality: Calif.

2450. **Erythroneura crevecoeuri** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 767, 1898, *Typhlocyba*.

Localities: N. Y., N. C., Ohio, Kans.

2451. **Erythroneura rubricata** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Typhlocyba*.

Locality: Fla.

Family FULGORIDAE (Latr.)

Latreille, Genera Crust. Ins., iii, p. 163, 1807, *Fulgorellae*.

Leach in Brewster's Edinbg. Encyc., ix, p. 124, 1915, *Fulgorida*.

Germar, Mag. d. Ent., iii, p. 179, 1818, *Fulgorellae*.

Latreille, Fam. Nat. Règne Animal, p. 427, 1825, *Fulgorellae*.

Fallén, Hemip. Suec., Cicad., p. 68, 1826, *Fulgorides*.

Latreille in Cuvier, Règne Animal, edn. 2, v, p. 215, 1829, *Fulgorelles*.

Burmeister, Handb. d. Ent., ii, pp. 102, 144, 1835, *Fulgorina*.

Latreille in Cuvier's Animal Kingd., Lond. edn., iv, p. 174, 1836, *Fulgorellae*.

Spinola, Ann. Soc. Ent. Fr., viii, pp. 133, 202, 1839, *Fulgorellae*.

Westwood, Intr. Mod. Classif. Ins., ii, p. 427; Synop., p. 115, 1840.

Blanchard, Hist. des Ins., Hémip., p. 167, 1840, *Fulgoriens*.

Spinola, Tavola Sinot., pp. 27, 50, 1850, *Fulgoritae*.

Walker, List Homop., ii, p. 261, 1851, *Fulgorina*.

Stål, Stet. Ent. Zeit., xix, p. 233, 1858, *Fulgorina*.

Flor, Rhyn. Livl., ii, p. 11, 1861, *Fulgorina*.

Stål, Hemip. Afr., iv, p. 128, 1866, *Fulgorida*.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 497, 1866.

Kirschbaum, Cicad. v. Wiesbd., p. 9, 1868, *Fulgorina*.

Sahlberg, Cicad., pp. 73, 376, 1871, *Fulgorina*.

Fieber, Kat. Eur. Cicad., p. 2, 1872, *Fulgorida*.

Fieber, Cicad. d'Eur., i, p. 41, 1875, *Fulgorida*.

Berg, Hemip. Argent., p. 213, 1879.

Distant, Biol. Centr. Am., Homop., i, p. 21, 1883.

Uhler, Stand. Nat. Hist., ii, p. 229, 1884.

Ashmead, Ent. Am., v, pp. 1, 21, 1889. (Keys.)

Provancher, Pet. Faune Ent. Can., iii, p. 215, 1889.

Hansen, Ent. Tidskr., xi, p. 65, 1890 (Kirkaldy transl. Entomol., xxxiii, pp. 169, 336, 1900; xxiv, p. 150, 1901; xxxv, p. 235, 1902; xxxvi, p. 93, 1903 (morphology)).

Osborn, Proc. Ent. Soc. Wash., iii, p. 187, 1895.

- Melichar, Cicad. Mitt. Eur., pp. 1, 17, 1896.
 Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, 1904 (catalogue).
 Oshanin, Verz. Palae. Hemip., ii, p. 224, 1906.
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 175, 1906.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1907 (synopses).
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 9, 91, 96,
 [1907, *Fulgoroidea*. (Superfamily.)
 Horvath, Ann. Mus. Natl. Hung., ix, p. 30, 1911.
 Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Fulgoroidea*. (Superfamily.)
 Subtericornes Amyot and Serville, Hémip., pp. liv, 483, 1843.

Subfamily FULGORINAE (Spin.)

- Spinola, Ann. Soc. Ent. Fr., viii, p. 202, 206, 1839, *Fulgoridea*.
 Amyot and Serville, Hémip., pp. lv, 488, 1843, *Fulgorides*. (Groupe.)
 Walker, List Homop., ii, p. 262, 1851, *Fulgoroides*.
 Stål, Hemip. Afr., iv, pp. 129, 131, 1866, *Fulgorida*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 740, 1870, *Fulgorina*.
 Berg, Hemip. Argent., p. 213, 1879, *Fulgorina*.
 Distant, Biol. Centr. Am., Homop., i, p. 22, 1883.
 Uhler, Stand. Nat. Hist., ii, p. 229, 1884, *Fulgorida*.
 Ashmead, Ent. Am., v, p. 2, 1889.
 Distant, Fauna Brit. Ind., Rhyn., iii, pp. 175, 178, 1906.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95, 1907.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1907, *Fulgorida*.
 Oshanin, Verz. Palae. Hemip., ii, p. 224, 1908, *Fulgorina*.
 Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Fulgoridae*. (Family.)
 Lystroides Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 240, 1839.
 Walker, List Homop., ii, p. 273, 1851.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913, *Lystrinae*.
 Eufulgoridae Haglund, Of. Vet. Akad. Forh., lvi, No. 2, p. 59, 1899.

Genus *Scolopsella* Ball

Orthotype *reticulata* Ball

- Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.
 Melichar, Abh. Zool.-Bot. Ges. Wien, vii, p. 171, 1912.

2452. *Scolopsella reticulata* Ball

- Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1907.
 Melichar, Abh. Zool.-Bot. Ges. Wien, vii, p. 171, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.
 Localities: Ariz., Calif.

Genus *Amycle* Stål

Logotype *amabilis* (Westw.)

- Stål, Stet. Ent. Zeit., xxii, p. 148, 1861.
 Stål, Berl. Ent. Zeit., vi, p. 305, 1862 (subgen. of *Cyrpoptus* Stål).
 Stål, Hemip. Afr., iv, p. 136, 1866.
 Stål, Stet. Ent. Zeit., xxxi, p. 291, 1870.
 Distant, Biol. Centr. Am., Homop., i, p. 25, 1887.

2453. *Amycle vernalis* Manee

Manee, Ent. News, xxi, p. 117, 1910.

Locality: Ga.

2454. *Amycle saxatilis* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.

Locality: Calif.

Genus *Calyptoproctus* Spin.Orthotype *elegans* Lep. & Serv.Duponehel, Revue Zool., ii, p. 201, 1839 (nomen nudum; names *lystroides*

Spinola, Ann. Soc. Ent. Fr., viii, p. 266, 1839.

[Spin. pseudotype).

Amyot and Serville, Hémip., p. 501, 1843.

Stål, Hemip. Afr., iv, p. 137, 1866.

Stål, Stet. Ent. Zeit., xxxi, p. 293, 1870.

Distant, Biol. Centr. Am., Homop., i, p. 36, 1887.

Ashmead, Ent. Am., v, p. 22, 1889.

[pseudotype).

Distant, Ann. Mag. Nat. Hist., ser. 7, xviii, p. 195, 1906 (names *stigma**Paralystra* White, Ann. Zool. Bot., xviii, p. 25, 1846 (type *emma* Wht.).2455. *Calyptoproctus marmoratus* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 271, 1839.

Amyot and Serville, Hémip., p. 501, 1843.

Locality: "N. Am."

Genus *Cyrpoptus* StålHaplotype *suavis* Stål

Stål, Berl. Ent. Zeit., vi, p. 304, 1862.

Stål, Stet. Ent. Zeit., xxxi, p. 292, 1870.

Distant, Biol. Centr. Am., Homop., i, p. 35, 1887.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913.

2456. *Cyrpoptus belfragei* Stål

Stål, Berl. Ent. Zeit., xiii, p. 240, 1869.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

Localities: N. C., Fla., Ohio, Mo., Texas.

2457. *Cyrpoptus reineckei* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.

Locality: Fla.

2458. *Cyrpoptus nubeculosus* Stål

Stål, Berl. Ent. Zeit., xiii, p. 240, 1869.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.

Localities: Texas. (Mexico.)

Genus *Poblicia* StålOrthotype *misella* (Stål)

Stål, Hemip. Afr., iv, p. 138, 1866 (nomen nudum).

Stål, Berl. Ent. Zeit., x, p. 390, 1867 (valid here).

Stål, Stet. Ent. Zeit., xxxi, p. 290, 1870.

Distant, Biol. Centr. Am., Homop., i, p. 31, 1887.

2459. *Poblicia misella* (Stål)

Stål, Stet. Ent. Zeit., xxiv, p. 239, 1863; xxv, p. 49, 1864, *Pococera*.

Uhler, Stand. Nat. Hist., ii, p. 230, 1884, *Pococera*.

Distant, Biol. Centr. Am., Homop., i, p. 31, pl. 5, fig. 6, 1887.

Localities: Ariz. (Mexico.)

2460. *Poblicia fuliginosa* (Oliv.)

Olivier, Eneye. Meth., vi, p. 574, 1791, *Fulgora*.

Uhler, Stand. Nat. Hist., ii, p. 230, 1884, *Pococera*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

Localities: N. C., Ga., Ohio, Mo., Texas, Ariz.

2461. *Poblicia thanatophana* Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 61, 1907.

Locality: Ariz.

Subfamily **DICTYOPHORINAE** (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 283, 1839, *Dyctiophoroides*.

Walker, List Homop., ii, p. 303, 1851, *Dyctiophoroides* (part).

Stål, Hemip. Afr., iv, p. 129, 1866, *Dictyopharida*.

Berg, Hemip. Argent., p. 217, 1879, *Dictyopharina*.

Distant, Biol. Centr. Am., Homop., i, p. 38, 1887.

Melichar, Homop. Fauna Ceyl., p. 17, 1903.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 236, 1906. [tyopharini.]

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, p. 10, 1907, *Dictyopharina*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Dictyopharida*.

Matsumura, Trans. Sapp. Nat. Hist. Soc., iii, p. 100, 1910. [(Key.)]

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 1, 1912.

Pseudophanides Amyot and Serville, Hémip., pp. lvi, 502, 1843 (part).

†*Fulgorinae* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, pp. 11, 12, 1913.

TRIBE **DICTYOPHORINI** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, pp. 6, 28, 191, 1912.

Genus **Dictyophora** Germ.

Logotype *europaea* Linn.

Germar, Silb. Revue Ent., i, p. 175, 1833.

Duponchel, Revue Zool., ii, p. 202, 1839 (names *proboscidea* Spin. pseudotype).

Spinola, Ann. Soc. Ent. Fr., viii, p. 290, 1839.

Kirschbaum, Cicad. v. Wiesbd., pp. 12, 50, 1868.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 114, 1912.

Pseudophana Burmeister, Handb. d. Ent., ii, p. 159, 1835.

Amyot and Serville, Hémip., p. 506, 1843.

Chianthus Kolenati, Bul. Soc. Imp. Mose., xxx, p. 427, 1857.

‡*Dictyophara* Stål, Hemip. Afr., iv, p. 154, 1866.

Fieber, Cicad. d'Eur., i, p. 70, 1875; ii, p. 209, 1876.

Berg, Hemip. Argent., p. 217, 1879.

Distant, Biol. Centr. Am., Homop., i, p. 39, 1887.

Ashmead, Ent. Am., v, p. 21, 1889.

- Melichar, Cicad. Mitt. Eur., pp. 18, 33, 1896. [as type].
 Distant, Fauna Brit. Ind., Rhyn., iii, pp. 237, 241, 1906 (gives *europaea*).
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1908.
 Van Duzee, Can. Ent., xlv, p. 387, 1914.
 Van Duzee, Check List Hemip., p. 78, 1916.
Acephora Bierman, Notes Leyden Mus., xxxiii, p. 12, 1911.
Tropidophora Bierman, Notes Leyden Mus., xxxiii, p. 15, 1911.
 †*Fulgora* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913 (names
 [*europaea* pseudotype]).

2462. *Dictyophora microrhina* Walk.

- Walker, List Homop., ii, p. 315, 1851.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 71, 1912, *Nersia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Nersia*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
 Localities: N. Y., N. J., N. C., Fla., La., Kans.

2463. *Dictyophora lingula* Van D.

- Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 470, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 186, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 71, 1912, *Nersia*.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Nersia*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
 Localities: N. J., N. C., Fla.

2464. *Dictyophora florens* (Stål)

- Stål, Rio Jan. Hemip., ii, p. 64, 1861, *Nersia*.
 Distant, Biol. Centr. Am., Homop., i, p. 41, pl. 6, fig. 8, 1887.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 470, 1908.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 72, 1912, *Nersia*.
nigromarginata Signoret, Ann. Soc. Ent. Fr., ser. 4, ii, p. 586, 1862.
 Localities: Kans. (Neotropical.)

2465. *Dictyophora dioxys* (Walk.)

- Walker, List Homop., Suppl., p. 61, 1858, *Nersia*.
 Kirkaldy, Can. Ent., xli, p. 391, 1909.
curviceps Stål, Rio Jan. Hemip., ii, p. 64, 1861, *Nersia*.
 Distant, Biol. Centr. Am., Homop., i, p. 40, pl. 6, fig. 4, 1887.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 74, 1912, *Nersia*.
 Localities: Md., Miss. (Neotropical.)

Genus *Scolops* Schaum

Type *sulcipes* (Say)

- Schaum, Ersch and Grube, Encyc., li, Article Fulgoridae, 1850.
 Stål, Hemip. Afr., iv, p. 151, 1866.
 Ashmead, Ent. Am., v, p. 21, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.
 Uhler, Trans. Md. Acad. Sci., i, p. 401, 1900.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1908.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 162, 1912 (monograph).

Ornithissus Fowler, Biol. Centr. Am., Homop., i, p. 121, 1904. [236, 1906.

Melichar, Monog. Issiden, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p.

Subgenus **Scolops** Schaum

Van Duzee, Check List Hemip., p. 78, 1916.

2466. **Scolops sulcipes** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 335, 1825; Compl. Writ., ii, p. 254, *Ful-*
Uhler, Hayden's Surv. Terr. for 1870, p. 471, 1872. [gora.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 349, 1876; iii, p. 458, 1877; iv, p.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333. [510, 1878.

Uhler, Stand. Nat. Hist., ii, p. 230, fig. 305, 1884.

Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Uhler, Trans. Md. Acad. Sci., i, p. 402, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

?pungens Germar, Thon's Ent. Archiv., ii, p. 47, 1830, *Flata*.

Walker, List Homop., ii, p. 309, 1851, *Dietyophora*.

Burmeister, Handb. d. Ent., ii, p. 160, 1835, *Pseudophana*.

Westwood, Trans. Linn. Soc. Lond., xviii, p. 150, 1837, *Flata*.

Uhler, Trans. Md. Acad. Sci., i, p. 408, 1900.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.

Localities: Quebec, Ont., Me., R. I., Conn., N. Y., N. J., Pa., Md.,

Va., N. C., Fla., Ohio, Ill., Ia., Manitoba, Minn., Dak., Neb.,

Kans., Colo., Utah, N. Mex., Texas, Ariz., Ore., Wash.

2467. **Scolops osborni** Ball

Ball, Can. Ent., xxxiv, p. 147, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 166, 1912.

Localities: Ia., Kans.

2468. **Scolops spurcus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 403, 1900.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 168, 1912.

Localities: N. J., Md., D. C., Mo., Kans.

2469. **Scolops desiccatus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 407, 1900.

Osborn, Ohio Nat., iv, p. 100, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 186, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

Localities: N. J., D. C., N. C., Fla., Ohio, Ind., Texas.

2470. *Scolops perdix* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 405, 1900.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

Localities: Mass., N. Y., N. J., Md., D. C., N. C., Colo., Ariz.

2471. *Scolops uhleri* Ball

Ball, Can. Ent., xxxiv, p. 148, 1902.

Snow, Kaus. Univ. Sci. Bul., ii, p. 349, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 169, 1912.

Localities: Colo., Utah, Ariz.

2472. *Scolops pallidus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 404, 1900.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.

Localities: Colo.(?), Utah(?), Calif.

2473. *Scolops cockerelli* (Fowl.)

Fowler, Biol. Centr. Am., Homop., i, p. 122, pl. 12, fig. 14, 1904, *Ornithissus*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 236, 1906, *Ornithissus*.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 62, 1907.

Localities: Ariz. (Mexico.)

2474. *Scolops vanduzeei* Ball

Ball, Can. Ent., xxxiv, p. 150, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 169, 1912.

Locality: Neb.

2475. *Scolops maculosus* Ball

Ball, Can. Ent., xxxiv, p. 148, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 166, 1912.

Locality: Colo.

2476. *Scolops viridis* Ball

Ball, Can. Ent., xxxiv, p. 149, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 170, 1912.

Locality: Colo.

2477. *Scolops angustatus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 350, 1876.

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Uhler, Trans. Md. Acad. Sci., i, p. 406, 1900.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 164, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

Localities: Mass., Conn., N. Y., N. J., Md., D. C., N. C., Ga., Fla.,
Ohio, Ind., Ia., Dak., Neb., Minn., Colo.

2478. *Scolops robustus* Ball

Ball, Can. Ent., xxxiv, p. 150, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 168, 1912.

Locality: Colo.

2479. *Scolops abnormis* Ball

Ball, Can. Ent., xxxiv, p. 149, 1902.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 164, 1912.

Locality: Calif.

2480. *Scolops hesperius* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 349, 1876.

Uhler, Trans. Md. Acad. Sci., i, p. 404, 1900.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.

Localities: Texas, Colo., Idaho, Calif.

2481. *Scolops grossus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 350, 1876.

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1896.

Uhler, Trans. Md. Acad. Sci., i, p. 408, 1900.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.

Localities: N. J., Kans., Colo., Idaho, Texas, Calif.

Subgenus *Belonocharis* Uhl.*Haplotype fumida* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 145, 1891 (as genus).

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 161, 1912 (as genus).

Van Duzee, Check List Hemip., p. 78, 1916.

2482. *Scolops fumidus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 146, 1891.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 161, 1912.

Locality: Calif.

2483. *Scolops piceus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.

Locality: Calif.

Genus *Phylloscelis* Germ.Logotype *atra* Germ.

Germar, Zeit. f. Ent., i, p. 191, 1839.

Stål, Hemip. Afr., iv, p. 151, 1866.

Uhler, Stand. Nat. Hist., ii, p. 231, 1884.

Osborn, Ohio Nat., iv, p. 93, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 100, 178, 1906.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 172, 1912 (names *atra* type).

2484. *Phylloscelis atra* Germ.

Germar, Zeit. f. Ent., i, p. 192, 1839.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.

Uhler, Stand. Nat. Hist., ii, p. 231, 1884.

Osborn, Ohio Nat., iv, pp. 93, 100, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 179, 1906.

- Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 472, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 173, 1912.
 Slingerland and Crosby, Manual Fruit Ins., p. 472, figs. 392, 393, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

a. var. albovenosa Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 179, fig. 39, 1906; vii, [p. 174, 1912.
 Localities: Miss., N. Y., N. J., Pa., Md., D. C., Va., N. C., Ga., Fla., Ohio, Ill., Kans., Mo., Ark., Okla., Texas.

2485. *Phylloscelis pallescens* Germ.

- Germar, Zeit f. Ent., i, p. 192, 1839.
 Uhler, Stand. Nat. Hist., ii, p. 231, 1884.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 178, 1906.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1908.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 173, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
 Localities: Mass., N. Y., N. J., Pa., N. C., Fla., Ia., Ark., Texas.

TRIBE *ORGERIINI* (Oshan.)

- Oshanin, Ann. Mus. Zool., Acad. Imp. Sci. St. Petersb., xii, p. 472, 1908, *Orger*.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 179, 1912. *Orgerini*. [*riaria*.
 Oshanin, Revue Russe d'Ent., xiii, p. 3, 1913. (Key to palaearectic genera.)
 Oshanin, Faune de la Russie, Hémip., iii, pt. 1, p. 8, 1913.

Genus *Orgerius* Stål

Haplotype *rhyparus* Stål

- Stål, Freg. Eugen. Resa, Ins., p. 273, 1859.
 Stål, Hemip. Afr., iv, p. 152, 1866.
 Fieber, Cicad. d'Eur., i, p. 74, 1875.
 Ashmead, Ent. Am., v, p. 6, 1889.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1908.
 Oshanin, Ann. Mus. Zool. Acad. Imp. Sci. St. Petersb., xii, p. 473, 1908.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 197, 1912.
 Horvath, Ann. Mus. Natl. Hung., xi, p. 452, 1913.
Nymphorgerius Oshanin, Revue Russe d'Ent., xiii, p. 3, 1913.
 Oshanin, Faune de la Russie, Hémip., iii, pp. 12, 48, 1913.
 (Genus *Ravissus* Fieb. now considered distinct.)

2486. *Orgerius rhyparus* Stål

- Stål, Freg. Eugen. Resa, Ins., p. 274, 1859.
 Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 199, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.
 Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
 Locality: Calif.

2487. *Orgerius minor* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 208, 1912.

†rhypparus Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 472, 1908.

Localities: Colo., Calif.

2488. *Orgerius erectus* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 209, 1912.

Locality: Calif.

2489. *Orgerius compressus* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 209, 1912.

Locality: Utah.

Genus *Orgamara* BallOrthotype *acuta* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.

2490. *Orgamara acuta* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.

Localities: Calif. (Mexico.)

2491. *Orgamara reducta* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.

Locality: Calif.

2492. *Orgamara obesa* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 199, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.

Locality: Utah.

2493. *Orgamara bipunctata* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 199, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.

Locality: Utah.

2494. *Orgamara obscura* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 200, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.

Locality: Idaho.

2495. *Orgamara albida* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 200, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.

Locality: Calif.

Genus *Timodema* BallOrthotype *miracula* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 201, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 195, 1912.

2496. **Timodema miracula** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 201, 1909.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 195, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.

Locality: Calif.

Genus **Ticida** Uhl.

Haplotype *cingulata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 143, 1891.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 234, 1906.

Van Duzee, Can. Ent., xlii, p. 387, 1914.

Lorophora Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 469, 472, 1908.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 210, 1912.

2497. **Ticida cingulata** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 144, 1891.

[1912.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 234, 1906; vii, p. 196,

transversa Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 473, 1908.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 210, 1912.

Localities: Colo., Utah.

Subfamily **ACHILINAE** (Stål)

Stål, Hemip. Afr., iv, p. 130, 1866, *Achilida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 784, 1870, *Achilina*.

Ashmead, Ent. Am., v, p. 23, 1889, *Achilini*. (Tribe.)

Fowler, Biol. Centr. Am., Homop., i, p. 103, 1904, *Achilina*.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 286, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906, *Achilidac*.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 10, 95, 115, 1907, *Achilini*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Achilida*. [(Tribe.)

Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911, *Achilidac*.

Genus **Elidiptera** Spin.

Logotype *callosa* Spin.

Duponchel, Revue Zool., ii, p. 202, 1839 (nomen nudum; names *callosa* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 304, 1839.

[type).

Spinola, Tavola Sinot., p. 52, 1850.

Van Duzee, Can. Ent., xlii, p. 262, 1910 (list of species).

Van Duzee, Check List Hemip., p. 79, 1916 (type written *collaris* by error).

‡*Helicoptera* Amyot and Serville, Hémip., p. 526, 1843.

Stål, Hemip. Afr., iv, pp. 182, 184, 1866.

Sahlberg, Cicad., p. 387, 1871.

Fieber, Cicad. d'Eur., i, p. 64, 1875; ii, p. 159, 1876.

Uhler, Stand. Nat. Hist., ii, p. 239, 1884.

Ashmead, Ent. Am., v, p. 23, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.

Fowler, Biol. Centr. Am., Homop., i, pp. 103, 106, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 475, 1908. (Key.)

Oshanin, Kat. Palae. Hemip., p. 120, 1912 (names *cineticops* pseudo-
[type).

2498. *Elidiptera colorata* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 476, 1908.

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Locality: N. Y.

2499. *Elidiptera opaca* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 239, 1830; Compl. Writ., ii, p. 374, *Flata*.

Uhler, Stand. Nat. Hist., ii, p. 239, 1884, *Helicoptera*.

Van Duzee, Psyche, v, p. 389, 1890, *Helicoptera*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894, *Helicoptera*.

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Helicoptera*.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 476, 1908, *Helicoptera*.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Van Duzee, Can. Ent., xlii, p. 262, 1910; xlv, p. 325, 1912.

vestita Provancher, Pet. Faune Ent. Can., iii, p. 221, 1889, *Helicoptera*.

pinorum Manee, Ent. News, xxi, p. 117, 1910, *Helicoptera*.

Localities: Ont., N. H., N. Y., N. J., Pa., Md., N. C., Ga., Ind.

2500. *Elidiptera pallida* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 240, 1830; Compl. Writ., ii, p. 374, *Flata*.

Van Duzee, Psyche, v, p. 389, 1890, *Helicoptera*.

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Helicoptera*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 477, 1908, *Helicoptera*.

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Localities: N. H., N. Y., N. J., Pa., D. C., Fla.

2501. *Elidiptera henshawi* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 83, 1910.

Localities: Calif., Wash.

2502. *Elidiptera slossoni* Van D.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 478, 1908, *Helicoptera*.

Locality: N. H.

2502¹/₂. *Elidiptera woodworthi* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.

Locality: Calif.

2503. *Elidiptera septentrionalis* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 220, 1889, *Helicoptera*.

Slosson, Ent. News, vi, p. 5, 1895, *Helicoptera*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 478, 1908, *Helicoptera*.

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Localities: Quebec, N. H., N. J.

2504. *Elidiptera floridæ* (Walk.)

Walker, List Homop., ii, p. 326, 1851, *Monopsis*.

Gillette and Baker, Hemip. Colo., p. 69, 1895, *Helicoptera*.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 83, 1910, *Helicoptera* (with doubt).

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Localities: R. I., N. J., Fla., Colo.(?).

2505. *Elidiptera variegata* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 479, 1908, *Helicoptera*.

Van Duzee, Can. Ent., xlii, p. 263, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Localities: Ont., N. H., N. J., N. C.

2506. *Elidiptera fusiformis* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 82, 1910.

Locality: Calif.

Genus *Catonia* Uhl.

Logotype *nava* Say

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 61.

Van Duzee, Proc. Acad. Sci. Phila., lix, p. 480, 1908. (Key.)

Van Duzee, Can. Ent., xlii, pp. 261, 263, 1910. (Key and list.)

Van Duzee, Check List Hemip., p. 79, 1916 (gives *nava* as type).

2507. *Catonia nava* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 238, 1830; Compl. Writ., ii, p. 373, *Flata*.

Walker, List Homop., ii, p. 469, 1851 (*Poeciloptera nocva*).

Van Duzee, Psyche, v, p. 389, 1890, *Phypia*.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 62.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Localities: Ont., N. Y., Md., Ohio, Ind., Ia.

2508. *Catonia cinctifrons* (Fitch)

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856, *Cixius*.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 62.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. Y., N. J., Pa., Md., N. C.

2509. *Catonia bicinctura* Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 119, 1915.

Locality: Fla.

2510. *Catonia picta* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. J., N. C., Ga., Fla.

2511. *Catonia grisea* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482, 1908.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Localities: Ont., N. Y.

2511¹². *Catonia nemoralis* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 246, 1916.

Locality: Calif.

2512. *Catonia pumila* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 483, 1908.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Localities: N. Y., Ohio.

2513. *Catonia maculifrons* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 491, 1912.

Locality: Ariz.

2514. *Catonia impunctata* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius*.

Van Duzee, Psyche, v, p. 390, 1890, *Myndus*.

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897, *Myndus*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482, 1908.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 85, 1910.

Van Duzee, Can. Ent., xlii, pp. 261, 263, 1910.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: R. I., N. Y., N. J., Pa., N. C., Ia.

2515. *Catonia dimidata* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 85, 1910.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

impunctata var. *a*, Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius*.

impunctata female, Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482.

Localities: R. I., N. Y. [1908.

2516. *Catonia irrorata* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.

Locality: Calif.

2517. *Catonia fusca* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.

Van Duzee, Can. Ent., xlii, p. 261, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.

Locality: Calif.

2518. *Catonia nervata* Van D.

Van Duzee, Can. Ent., xlii, pp. 262, 265, 1910.

Locality: Calif.

2519. *Catonia rubella* Van D.

Van Duzee, Can. Ent., xlii, pp. 262, 264, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.

Locality: Calif.

2520. *Catonia costata* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 86, 1910.

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.

Locality: Calif.

2521. *Catonia cara* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 86, 1910.

Van Duzee, Can. Ent., xlii, p. 262, 1910.

Locality: Calif.

2521½. *Catonia succinea* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 247, 1916.

Locality: Calif.

2522. *Catonia majuscula* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 492, 1912.

Locality: Ariz.

2523. *Catonia producta* Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 120, 1915.

Locality: Calif.

Subfamily CIXIINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 311, 1839, *Cixioides*.Spinola, Tavola Sinot., p. 52, 1850, *Cixioidae* (part).Walker, List Homop., ii, p. 335, 1851, *Cixioides* (part).Stål, Hemip. Afr., iv, p. 129, 1866, *Cixiida*.Stål, Of. Vet. Akad. Forh., xxvii, p. 746, 1870, *Cixiina*.Sahlberg, Cicad., pp. 73, 377, 1871, *Cixiides*.Berg, Hemip. Argent., p. 219, 1879, *Cixiina*.Uhler, Stand. Nat. Hist., ii, p. 240, 1884, *Cixiida*.

Ashmead, Ent. Am., v, p. 2, 1889.

Melichar, Homop. Fauna Ceylon, p. 30, 1903, *Cixiidae*.Fowler, Biol. Centr. Am., Homop., i, p. 80, 1904, *Cixiidae*.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 255, 1906.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 10, 95, 106, 1907, *Cixiini*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907. (Tribe.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 484, 1908, *Cixiida*. (Key.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.

Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Cixiidae*. (Family.)Genus *Bothriocera* Burm.Haplotype *tinealis* Burm.

Burmeister, Handb. d. Ent., ii, p. 146, 156, 1835.

Stål, Hemip. Afr., iv, p. 164, 1866.

Fowler, Biol. Centr. Am., Homop., i, p. 82, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

Adana Stål, Of. Vet. Akad. Forh., xiii, p. 162, 1856.

Stål, Hemip. Afr., iv, p. 164, note, 1866.

2524. *Bothriocera tinealis* Burm.

Burmeister, Handb. d. Ent., ii, p. 156, 1835.

Fowler, Biol. Centr. Am., Homop., i, p. 82, pl. 9, figs. 11, 12, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

a. var. westwoodi Stål

Stål, Of. Vet. Akad. Forh., xiii, p. 163, 1856, *Adana*.

Stål, Stet. Ent. Zeit., xxv, p. 50, 1864.

Fowler, Biol. Centr. Am., Homop., i, p. 82, 1904.

†*signoreti* Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.

Localities: N. C., Fla. (West Indies.)

2525. *Bothriocera signoreti* Stål

Stål, Stet. Ent. Zeit., xxv, p. 50, 1864.

Uhler, Stand. Nat. Hist., ii, p. 240, 1884.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.

Fowler, Biol. Centr. Am., Homop., i, p. 82, pl. 9, fig. 13, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.

Localities: Md., Ga., Fla., Texas. (Mexico.)

(May not be distinct from preceding.)

2526. *Bothriocera undata* (Fabr.)

Fabricius, Syst. Rhyng., p. 101, 1803, *Issus*.

Germar, Thon's Archiv. Ent., ii, p. 51, 1830, *Issus*.

Walker, List Homop., ii, p. 372, 1851, *Issus*.

Stål, Hemip. Fabr., ii, p. 93, 1869.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.

Swezey, Ohio Dept. Agr., Div. Nurs. Oreh. Insp., Bul. 3, p. 22, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 485, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.

Localities: Fla. (West Indies.)

2527. *Bothriocera*(?) *bicornis* (Fabr.)

Fabricius, Syst. Rhyng., p. 101, 1803, *Issus*.

Germar, Thon's Archiv. Ent., ii, p. 51, 1830, *Issus*.

Walker, List Homop., ii, p. 372, 1851, *Issus*.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.

Localities: N. J., Md., N. C., Fla., Texas. (Neotropical.)

(North American localities may refer to *undata*.)

Genus *Oliarus* StålLogotype *walkeri* (Stål)

Stål, Berl. Ent. Zeit., vi, p. 306, 1862.

Stål, Hemip. Afr., iv, pp. 164, 166, 1866.

Sahlberg, Cicad., p. 384, 1871.

Fieber, Cicad. d'Eur., i, p. 69, 1875; ii, p. 187, 1876.

Mayr, Tabellen, p. 17, 1884.

Ashmead, Ent. Am., v, p. 25, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 222, 1889.

Edwards, Hemip. Homop. Brit. Isds., p. 23, 1896.

Melichar, Cicad. Mitt. Eur., pp. 19, 29, 1896, *Oliarius*.

Kirkaldy, Fauna Hawai., iii, p. 119, 1902.

Fowler, Biol. Centr. Am., Homop., i, p. 92, 1904.

[type].

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 255, 256, 1906 (names *walkeri* Stål

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 396, 397, 1906; iii, pp. 106, 107,

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 485, 1908. (Key.) [1907.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 76, 1909.

Oshanin, Kat. Palae. Hemip., p. 116, 1912 (names *pallens* Germ. type).

Pentastira Kirschbaum, Cicad. v. Wiesbd., pp. 11, 44, 1868.

Pentastiridius Kirschbaum, Cicad. v. Wiesbd., pp. 11, 45, 1868.

2528. *Oliarus quinquelineatus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 241, 1830; Compl. Writ., ii, p. 375, *Flata*.

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius*.

Walker, List Homop., ii, p. 470, 1851, *Pocilloptera*; Suppl., p. 135, 1858, *Cixius*.

Van Duzee, Can. Ent., xxi, p. 7, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Osborn, Ohio Nat., iv, p. 100, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Van Duzee, Can. Ent., xlv, p. 325, 1912. [1902, *Flata*.

§quadritineata Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 230,

Localities: Quebec, Ont., N. Y., N. J., Ohio, Fla., Colo.

2529. *Oliarus placitus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 493, 1912.

Localities: Ga., Fla.

2530. *Oliarus vicarius* (Walk.)

Walker, List Homop., ii, p. 343, 1851, *Cixius*.

?Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877, *Cixius*.

?Gillette and Baker, Hemip. Colo., p. 69, 1895, *Cixius*.

Distant, Ann. Mag. Nat. Hist., ser. 7, xix, p. 280, 1907.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Localities: Md.(?), Ga., Fla., Texas(?), Colo.(?).

2531. *Oliarus franciscanus* (Stål)

Stål, Freg. Eugen. Resa., Ins., p. 273, 1859, *Cixius*.

Stål, Berl. Ent. Zeit., vi, p. 306, 1862.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Cixius*.

Gillette and Baker, Hemip. Colo., p. 69, 1895.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 22, 1908.

complectus Ball, Can. Ent., xxxiv, p. 152, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 488, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.

Localities: Mass., N. Y., N. J., Pa., Md., D. C., Fla., Ohio, Kans., Colo., Ariz., Calif. (West Indies.)

2532. *Oliarus aridus* Ball

Ball, Can. Ent., xxxiv, p. 151, 1902.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.

breviceps Fowler, Biol. Centr. Am., Homop., i, p. 94, pl. 10, fig. 19, 1905.

Localities: Kans., Colo., Calif. (Mexico.)

2533. *Oliarus californicus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.

Locality: Calif.

2534. *Oliarus sementinus* Ball

Ball, Can. Ent., xxxiv, p. 152, 1902.

Locality: Colo.

2535. See 2531

2536. *Oliarus fidus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 247, 1916.

Locality: Calif.

2537. *Oliarus slossoni* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 494, 1912 (n.n. for *hyalinus* Van D.).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

¶ *hyalinus* Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 487, 1908.

Locality: Fla.

(May pertain to genus *Iolania* Kirk.)

2538. *Oliarus difficilis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 494, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Locality: Fla.

2539. *Oliarus pima* Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 62, 1907.

Locality: Ariz.

2540. *Oliarus humilis* (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 241, 1830; Compl. Writ., ii, p. 376,

Walker, List Homop., ii, p. 470, 1851, *Pocilloptera*. [Flata.

Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Osborn, Ohio Nat., iv, p. 100, 1904.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 488, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Localities: Ont., N. Y., N. J., Pa., Ohio.

2541. *Oliarus cinnamomeus* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 488, 1908.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Localities: N. H., Mass., N. Y., Vanc. Isl.

Genus *Monorachis* Uhl.

Haplotype *sordulentus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 509, 1901.

2542. *Monorachis sordulentus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 510, 1901.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

aspera Fowler, Biol. Centr. Am., Homop., i, p. 87, 1904, *Metabrixia*?

Localities: Fla. (Mexico.)

Genus *Platycixius* Van D.Orthotype *calvus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.

2543. *Platycixius calvus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 38, 1914.

Locality: Calif.

Genus *Cixius* Latr.Logotype *nervosus* (Linn.)

Latreille, Hist. Nat. Crust. Ins., xii, p. 310, 1804.

Latreille, Genera Crust. Ins., iii, p. 166, 1807.

Leach in Brewster's Edinbg. Encyc., ix, p. 125, 1815.

Latreille in Cuvier, Règne Animal, edn. 2, v, p. 216, 1829.

Curtis, Brit. Ent., xiv, pl. 673, 1837 (names *nervosus* type).Duponchel, Revue Zool., ii, p. 203, 1839 (names *servillei* Spin. pseudotype).

Spinola, Ann. Soc. Ent. Fr., viii, p. 323, 1839.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 115, 1840 (names *cunicularius*

Blanchard, Hist. des. Ins., Hémip., p. 173, 1840. [pseudotype].

Zetterstedt, Ins. Lapp., column 303, 1840.

Amyot and Serville, Hémip., p. 507, 1843.

Spinola, Tavola Sinot., p. 52, 1850.

Walker, List. Homop., ii, p. 339, 1851.

Flor, Rhyn. Livl., ii, p. 15, 1861.

Stål, Hemip. Afr., iv, pp. 164, 169, 1866.

Kirschbaum, Cicad. v. Wiesbd., pp. 11, 46, 1868.

Sahlberg, Cicad., pp. 73, 377, 1871.

Fieber, Cicad. d'Eur., i, p. 68, 1875; ii, p. 166, 1876.

Mayr, Tabellen, p. 16, 1884.

Ashmead, Ent. Am., v, p. 25, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 221, 1889.

Edwards, Trans. Ent. Soc. Lond. for 1888, p. 51.

Melichar, Cicad. Mitt. Eur., pp. 18, 21, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 24, 1896.

Fowler, Biol. Centr. Am., Homop., i, pp. 80, 96, 1904.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 259, 1906.

Van Duzee, Can. Ent., xxxviii, p. 408, 1906. (Key.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 484, 488, 1908. (Key.)

‡*Flata* Germar, Silb. Revue Ent., i, p. 175, 1833.‡*Ciria* Burmeister, Handb. d. Ent., ii, p. 156, 1835.2544. *Cixius dorsivittatus* Van D.Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909 (n.n. for *dorsalis* Van D.).

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

‖*dorsalis* Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 491, 1908.

Locality: Fla.

2545. *Cixius misellus* Van D.

Van Duzee, Check List Hemip., p. 79, 1916 (n.n. for *stigmatus* Van D. 1906).
 †*stigmatus* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.

Uhler, Stand. Nat. Hist., ii, p. 240, 1884.

Van Duzee, Can. Ent., xxi, p. 7, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 222, 1889.

Van Duzee, Psyche, v, p. 389, 1890.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Gillette and Baker, Hemip. Colo., p. 68, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, Can. Ent., xxxviii, p. 408, 1906 (species defined).

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.

Van Duzee, Can. Ent., xl, p. 114, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Localities: Quebec, Ont., N. H., Mass., R. I., N. Y., N. J., Pa.,
 N. C., Ga., Mich., Ill., Colo., Texas.

2546. *Cixius basalis* Van D.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 489, 1908.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Quebec, Ont., N. H., Mass., R. I., N. Y., Ga., Colo.,
 Texas, Calif., Brit. Col.

2547. *Cixius coloeptium* Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 452, 1856.

Van Duzee, Psyche, v, p. 388, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Slosson, Ent. News, viii, p. 240, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Van Duzee, Can. Ent., xxxviii, p. 408, 1906.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.

Localities: Ont., N. H., N. Y., Pa., Ohio, Colo.

2548. *Cixius pini* Fitch

Fitch, Homop. N. Y. St. Cab., p. 45, 1851.

Van Duzee, Can. Ent., xxi, p. 7, 1889.

Van Duzee, Psyche, v, p. 388, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.

Van Duzee, Can. Ent., xxxviii, p. 408, 1906.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

Localities: Quebec, Ont., Mass., N. Y., Pa., N. C.

2549. *Cixius stigmatus* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 336, 1825; Compl. Writ., ii, p. 255,

Fitch, Homop. N. Y. St. Cab., p. 45, 1851.

[*Flata*.

Walker, List Homop., ii, p. 469, 1851, *Poeciloptera*; iv, p. 1135, 1852.

Osborn, Ohio Nat., iv, p. 100, 1904.

?Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

lepidus Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 87, 1910.

Localities: Mo., Kans., Colo.

2550. **Cixius cultus** Ball

Ball, Can. Ent., xxxiv, p. 151, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.

Localities: Kans., Colo., Calif.

Cixius albicinctus Germ.

Smith, Cat. Ins. N. J., edn. 2, p. 88, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Localities: N. J., Pa. (Europe.)

(Probably an erroneous determination.)

Genus **Microledrida** Fowl.

Haplotype *asperata* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 99, 1904.

2551. **Microledrida fuscata** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 38, 1914.

Locality: Calif.

Genus **Oeclidius** Van D.

Haplotype *nanus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.

2552. **Oeclidius nanus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.

Locality: Calif.

Genus **Oecleus** Stål

Logotype *seminiger* Stål

Stål, Berl. Ent. Zeit., vi, p. 306, 1862.

Stål, Hemip. Afr., iv, p. 165, 1866.

Fowler, Biol. Centr. Am., Homop., i, pp. 80, 84, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

2553. **Oecleus decens** Stål

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.

Townsend, Psyche, vi, p. 353, 1892.

Townsend, Can. Ent., xxiv, p. 197, 1892; xxvi, p. 316, 1894.

Fowler, Biol. Centr. Am., Homop., i, p. 90, pl. 10, figs. 6, 7, 1904.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.

Localities: N. Mex., Calif. (Mexico.)

2554. **Oecleus borealis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 495, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

†*decens* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.

?Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Localities: N. Y., N. J., D. C., Fla.

2555. *Oecleus obtusus* Ball

Ball, Can. Ent., xxxiv, p. 155, 1902.

Localities: Kans., Colo., Utah, Ariz.

2556. *Oecleus lineatus* Ball

Ball, Can. Ent., xxxiv, p. 154, 1902.

Locality: Ariz.

2557. *Oecleus excavatus* Ball

Ball, Can. Ent., xxxiv, p. 155, 1902.

Locality: Colo.

2558. *Oecleus campestris* Ball

Ball, Can. Ent., xxxiv, p. 156, 1902.

Locality: Colo.

2559. *Oecleus pellucens* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 90, pl. 10, figs. 8, 9, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 497, 1912.

Localities: Ariz. (Mexico.)

2560. *Oecleus capitulatus* Van D.Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 495, 1912 (misprinted *capitualetus*).

Locality: Ariz.

2561. *Oecleus snowi* Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 117, 1905.

Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

Locality: Ariz.

2562. *Oecleus fulvidorsum* Ball

Ball, Can. Ent., xxxiv, p. 157, 1902.

Localities: Colo., Ariz.

2563. *Oecleus quadrilineatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 496, 1912.

Locality: Ariz.

2564. *Oecleus nervosus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 496, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.

Locality: Calif.

Genus *Myndus* StålLogotype *musivus* (Germ.)

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.

Stål, Hemip. Afr., iv, p. 165, 1866.

Fieber, Cicad. d'Eur., i, p. 61, 1875; ii, p. 157, 1876.

Mayr, Tabellen, p. 16, 1884.

Ashmead, Ent. Am., v, p. 4, 1889.

Melichar, Cicad. Mitt. Eur., pp. 18, 20, 1896.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

Entithena Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 499, 1866.

2565. *Myndus pictifrons* Stål

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.

Osborn, Ohio Nat., iv, p. 100, 1904.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, 491, 1908.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

Localities: N. Y., N. J., D. C., N. C., Ohio.

2566. *Myndus sordidipennis* Stål

Stål, Berl. Ent. Zeit., vi, p. 308, 1862.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 491, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

impunctatus Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.

Gillette and Baker, Hemip. Colo., p. 69, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Localities: Ont., N. Y., N. J., Pa., Ga., Colo.

2567. *Myndus delicatus* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 492, 1908.

Locality: Fla.

2568. *Myndus impiger* Ball

Ball, Can. Ent., xxxiv, p. 153, 1902.

Myndus sp., Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Locality: Colo.

2569. *Myndus slossoni* Ball

Ball, Can. Ent., xxxiv, p. 154, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Localities: Ga., Fla.

2570. *Myndus enotatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Localities: Ga., Fla.

2571. *Myndus lunatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 189, 1909.

Locality: Fla.

2572. *Myndus viridis* Ball

Ball, Can. Ent., xxxiv, p. 153, 1902.

Osborn, Ohio Nat., iv, p. 100, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Localities: N. J., Ohio, Ia., Colo.

2573. *Myndus pusillus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Locality: Fla.

2574. *Myndus fulvus* Osb.

Osborn, Ohio Nat., iv, p. 46, 1903; p. 100, 1904.

Localities: Mass., Conn., Ohio.

2575. *Myndus radialis* Osb.

Osborn, Ohio Nat., iv, p. 42, 1903; p. 100, 1904.

Locality: Ohio.

2576. *Myndus occidentalis* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 39, 1914.

Locality: Calif.

Subfamily TROPIDUCHINAE (Stål)

Stål, Hemip. Afr., iv, pp. 130, 186, 1866, *Tropiduchida*.Stål, Of. Vet. Akad. Forh., xxvii, p. 748, 1870, *Tropiduchina*.Berg, Hemip. Argent., p. 227, 1879, *Tropiduchina*.Ashmead, Ent. Am., v, p. 23, 1889, *Tropiduchini* (Tribe).Fowler, Biol. Centr. Am., Homop., i, p. 103, 1904, *Tropiduchina*.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 272, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 92, 1907.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 474, 1908, *Tropiduchida*.

Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911.

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 1, 1914.

Eutropistidae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.Genus *Neurotmeta* Guer.Haplotype *sponsa* Guer.

Guerin in La Sagra, Hist. de Cuba, Ins., p. 180, 1856.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 174, 1912.

? *Tangia* Stål, Berl. Ent. Zeit., iii, p. 317, 1859.

Stål, Hemip. Afr., iv, p. 186, 1866.

[Walk. type.]

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 100, 1914 (names *viridis*2577. *Neurotmeta sponsa* Guer.Guerin in La Sagra, Hist. de Cuba, Ins., p. 180, 1856, *Pseudophana* (suggests
[a n.gen., *Neurotmeta* for this species]).Uhler, Stand. Nat. Hist., ii, p. 231, 1884, *Tangia*.Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907, *Tangia*.Melichar, Verh. Naturf. Vereins Brünn, liii, p. 101, 1914, *Tangia*.

Localities: Fla. (West Indies.)

Genus *Monopsis* Spin.Haplotype *tabida* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 302, 1839.

Amyot and Serville, Hémip., p. 507, 1843.

Stål, Hemip. Afr., iv, p. 188, 1866.

Ashmead, Ent. Am., v, p. 21, 1889.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 98, 1907.

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.

2578. *Monopsis tabida* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 304, pl. 10, fig. 4, 1839.

Amyot and Serville, Hémip., p. 507, 1843.

Walker, List Homop., ii, p. 325, 1851.

Uhler, Stand. Nat. Hist., ii, p. 232, 1884.

?Southwick, Science, xix, p. 357, 1892.

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 82, 1894.

Locality: Fla. (perhaps oriental).

Genus **Pelitropis** Van D.

Haplotype *rotulata* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 474, 1908.

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.

2579. **Pelitropis rotulata** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 474, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.

Locality: Fla.

Subfamily ISSINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 204, 1839, *Issites*.

Amyot and Serville, Hémip., pp. lvii, 516, 1843, *Issides* (Groupe).

Walker, List Homop., ii, p. 361, 1851, *Issoides* and *Issites* (part).

Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861, *Issida*.

Stål, Hemip. Afr., iv, pp. 131, 202, 1866, *Issida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 754, 1870, *Issina*.

Sahlberg, Cicad., p. 73, 1871, *Issides*.

Fieber, Kat. Eur. Cicad., p. 4, 1872, *Issidae*.

Fieber, Cicad. d'Eur., i, p. 75, 1875, *Issida*.

Berg, Hemip. Argent., p. 228, 1879, *Issina*.

Uhler, Stand. Nat. Hist., ii, p. 233, 1884, *Issida*.

Ashmead, Ent. Am., v, p. 5, 1889.

Melichar, Cicad. Mitt. Eur., p. 18, 1896, *Issini*.

Fowler, Biol. Centr. Am., Homop., i, p. 113, 1904, *Issidae*.

Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, p. 11, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 1, 1906, *Issiden*.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 332, 1906.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 94, 102, 1907.

Oshanin, Verz. Palae. Hemip., ii, p. 253, 1907, *Issina*.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Issida*.

Horvath, Ann. Mus. Natl. Hung., ix, p. 32, 1911, *Issidae*.

[tribes.]

Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 85, 1916, *Issiden*. (Key to

TRIBE CALISCELINI (A. & S.)

Amyot and Serville, Hémip., pp. lvii, 509, 1843, *Caloscélides*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 3, 4, 1906, *Caliscelidae*.

Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 88, 1916.

Genus **Fitchiella** n.n.

Haplotype *robertsoni* (Fitch)

||Naso Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856.

Uhler, Stand. Nat. Hist., ii, p. 234, 1884.

Ashmead, Ent. Am., v, p. 6, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 17, 1906.

2580. *Fitchiella robertsoni* (Fitch)

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856, *Naso*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Naso*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 18, 1906, *Naso*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909, *Naso*.

Localities: N. Y., Md., Fla., Ind., Ill., Kans., Ark., Okla., Texas.
(Central Am.)

2581. *Fitchiella fitchi* (Melich.)

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 19, fig. 4, 1906, *Naso*.

Localities: Kans., Colo.

2582. *Fitchiella melichari* (Ball)

Ball, Proc. Biol. Soc. Wash., xxiii, p. 42, 1910, *Naso*.

Locality: Ariz.

Genus *Bruchomorpha* Newm.Haplotype *oculata* Newm.

Newman, Ent. Mag., v, p. 399, 1838.

Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861.

Stål, Hemip. Afr., iv, p. 203, 1866.

Ashmead, Ent. Am., v, p. 6, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 252, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 20, 1906.

Embolonia Provancher, Pet. Faune Ent. Can., iii, p. 253, 1889.

Lallemant, Genera Ins., fasc. 143, p. 67, 1913.

2583. *Bruchomorpha oculata* Newm.

Newman, Ent. Mag., v, p. 399, 1838.

Walker, List Homop., ii, p. 395, 1851.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.

Van Duzee, Can. Ent., xxi, p. 7, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 253, 1889.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.

Gillette and Baker, Hemip. Colo., p. 70, 1895.

Osborn, Ohio Nat., i, p. 11, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 22, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Van Duzee, Can. Ent., xlv, p. 327, 1912.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

ocellata Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 472, 1872.

americanus Provancher, Natl. Can., iv, p. 350, 1872, *Cephalclaus*.

tricarinata Provancher, Pet. Faune Ent. Can., iii, p. 254, 1889, *Embolonia*.

Lallemant, Genera Ins., fasc. 143, p. 67, 1913.

Localities: Quebec, One., N. Y., N. J., Pa., Md., Va., N. C., Ill.,
Wis., Ia., Neb., Okla., Colo., Texas.

2584. *Bruchomorpha pallidipes* Stål

Stål, Berl. Ent. Zeit., vi, p. 309, 1862.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 459, 1877.

Gillette and Baker, Hemip. Colo., p. 70, 1895.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 25, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.

Localities: Va., S. C., Fla., Kans., Colo.

2585. *Bruchomorpha dorsata* Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.

Uhler, Stand. Nat. Hist., ii, p. 234, 1884.

Van Duzee, Psyche, v, p. 388, 1890.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.

Osborn, Ohio Nat., iv, p. 100, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 23, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., xii, p. 26, 1913.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

flavo-vittata Stål, Berl. Ent. Zeit., vi, p. 309, 1862.

Localities: N. Y., N. J., N. C., Ohio, Wis., Ia., Kans., Mo., Ark.,
Okla., Colo., Texas. (Mexico.)

2586. *Bruchomorpha suturalis* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, p. 24, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

Localities: N. C., Fla., Colo., Texas.

2587. *Bruchomorpha mormo* Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 64, 1907; iii, p. 105, 1907.

Kirkaldy, Can. Ent., xxxix, p. 249, 1907.

Locality: Ariz.

2588. *Bruchomorpha tristis* Stål

Stål, Berl. Ent. Zeit., vi, p. 309, 1862.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 23, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

Localities: Ont., N. Y., N. J., D. C., N. C., Fla., Wis., Texas, Calif.
(Central Am.)

2589. *Bruchomorpha nasuta* Stål

Stål, Berl. Ent. Zeit., vi, p. 310, 1862.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 22, 1906.

Localities: Pa., Wis.

2590. *Bruchomorpha jocosa* Stål

Stål, Berl. Ent. Zeit., vi, p. 310, 1862.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 25, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Localities: S. C., Fla., Kans., Texas.

Genus *Aphelonema* Uhl.Haplotype *simplex* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.

Ashmead, Ent. Am., v, p. 5, 1889.

Oshanin, Kat. Palae. Hemip., p. 121, 1912.

Peltonotus Mulsant and Rey, Ann. Soc. Linn. Lyons, ii, p. 206, 1855.

Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861.

Stål, Hemip. Afr., iv, p. 203, 1866.

Fieber, Cicad. d'Eur., i, p. 73, 1875; ii, p. 224, 1876.

Mayr, Tabellen, p. 17, 1884.

Melichar, Cicad. Mitt. Eur., pp. 19, 36, 1896. [*tonotus* M. & R.).

Peltonotellus Puton, Cat. Hemip. Palae., edn. 3, p. 70, 1886 (n.n. for *Pel-*

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 5, 28, 1906.

2591. *Aphelonema histrionica* (Stål)

Stål, Berl. Ent. Zeit., vi, p. 310, 1862, *Peltonotus*.

Van Duzee, Can. Ent., xxi, p. 8, 1889, *Peltonotus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894, *Peltonotus*.

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897, *Peltonotus*.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Peltonotellus*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 33, 1906, *Peltonotellus*.

Localities: Ont., Mass., N. Y., Wis., Ia., Nevada.

2592. *Aphelonema rugosa* (Ball)

Ball, Can. Ent., xxxiv, p. 263, 1902, *Peltonotellus*. [*tellus*).

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 34, fig. 8, 1906, *Peltono-*

Localities: Md., Ia., Kans., Colo., Dak., Brit. Am.

2593. *Aphelonema bivittata* (Ball)

Ball, Can. Ent., xxxiv, p. 263, 1902, *Peltonotellus*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 35, 1906, *Peltonotellus*.

Localities: Ia., Neb., Kans., Colo.

2594. *Aphelonema simplex* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 34, 1906.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Localities: N. J., Md., Ia., Dak., Kans.

2595. *Aphelonema decorata* (Van D.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 492, 1908, *Peltonotellus*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909; x, p. 500, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.

Locality: Fla.

2596. *Aphelonema obscura* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 499, 1912.

Locality: Ga.

TRIBE *ISSINI* (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 205, 1839, *Issoides*.

Anyot and Serville, Hémip., pp. lvii, 516, 1843, *Issides*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 3, 100, 1906, *Issidac*.

Genus **Hysteropterum** A. & S.Logotype *immaculatus* (H. S.)

- Amyot and Serville, Hémip., p. 519, 1843.
 Fieber, Cicad. d'Eur., i, p. 78, 1875.
 Ashmead, Ent. Am., v, p. 5, 1889.
 Melichar, Cicad. Mitt. Eur., pp. 19, 44, 1896.
 Fowler, Biol. Centr. Am., Homop., i, pp. 113, 119, 1904. [type].
 Distant, Fauna Brit. Ind., Rhyn., iii, pp. 333, 341, 1906 (names *immaculatum*
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 101, 116, 1906.

2597. **Hysteropterum cornutum** Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 147, 1906.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 493, 1908.
 Localities: Colo., Utah, Calif.

2598. **Hysteropterum unum** Ball

- Ball, Proc. Biol. Soc. Wash., xxiii, p. 43, 1910.
 Locality: Colo.

2599. **Hysteropterum punctiferum** Walk.

- Walker, List. Homop., ii, p. 376, 1851.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 148, 1906.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
aciculatus Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 353, 1876, *Issus*.
 Localities: Fla., Colo., Texas.

2600. **Hysteropterum aureum** (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Issus*.
 Dyar, Proc. Ent. Soc. Wash., v, p. 43, 1902, *Issus* (parasitized).
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 148, 1906.
 Locality: Texas.

Genus **Tylana** StålLogotype *cristata* (Fabr.)

- Stål, Of. Vet. Akad. Forh., xviii, p. 208, 1861 (nomen nudum here).
 Stål, Rio Jan. Hemip., ii, p. 67, 1862 (valid here).
 Stål, Hemip. Afr., iv, p. 213, 1866.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 762, note, 1870.
 Uhler, Stand. Nat. Hist., ii, p. 234, 1884.
 Ashmead, Ent. Am., v, p. 5, 1889.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 198, 1906.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 102, 105, 1907.
 Distant, Ann. Mag. Nat. Hist., ser. 8, iv, p. 76, 1909 (names *cristata* type).

2601. **Tylana ustulata** Uhl.

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 354, 1876.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 202, 1906.
 Localities: Colo., Ariz.

Genus **Misodema** Melich.Haplotype *reticulata* (Melich.)

- Melichar, Wien. Ent. Zeit., xxvi, p. 324, 1907 (n.n. for *Rileya* Melich.).
 || *Rileya* Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 161, 1906.
 Van Duzee, Check List Hemip., p. 81, 1916.

2602. *Misodema reticulata* (Melich.)

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 161, 1906, *Riley*.

Van Duzee, Check List Hemip., p. 81, 1916, *Riley*.

Localities: Texas. (Mexico.)

Genus *Dictyssa* Melich.

Logotype *areolata* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 163, 1906.

2603. *Dictyssa fusca* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 163, 1906.

Locality: Calif.

2604. *Dictyssa marginepunctata* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2605. *Dictyssa clathrata* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.

Locality: Calif.

2606. *Dictyssa areolata* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.

Locality: Calif.

2607. *Dictyssa ovata* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 44, 1910.

Localities: Calif. (Mexico.)

2608. *Dictyssa fenestrata* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 44, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2609. *Dictyssa transversa* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2610. *Dictyssa mutata* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2611. *Dictyssa obliqua* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 45, 1910.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Localities: Calif. (Mexico.)

2612. *Dictyssa semivitrea* (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 218, 1889, *Hysteropterum*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.

Van Duzee, Can. Ent., xlv, p. 325, 1912, *Hysteropterum*.

Locality: Calif.

Genus **Dictyonissus** Uhl.Haplotype *griphus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 355, 1876.

Ashmead, Ent. Am., v, p. 5, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.

2613. **Dictyonissus griphus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 166, fig. 29, 1906.

Localities: Texas, Calif. (Centr. Am.)

Genus **Naethus** StålHaplotype *vitripennis* (Stål)

Stål, Of. Vet. Akad. Forh., xvii, p. 208, 1861 (nomen nudum here).

Stål, Rio Jan. Hemip., ii, p. 67, 1862 (valid here).

Ashmead, Ent. Am., v, p. 5, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 166, 1906.

2614. **Naethus grossus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.

Locality: Calif.

2615. **Naethus maculatus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.

Locality: Calif.

2616. **Naethus fenestratus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2617. **Naethus nigronervosus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 168, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Localities: Ariz., Calif.

2618. **Naethus vitripennis** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 247, 1854, *Hysteropterum*.

Stål, Freg. Eugen. Resa, Ins., p. 279, 1859, *Hysteropterum*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 168, fig. 30, 1906.

Localities: Ariz., Calif.

Genus **Dictyobia** Uhl.Haplotype *permutata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 39, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 169, 1906.

2619. **Dictyobia permutata** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 39, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 169, fig. 31, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.

Locality: Calif.

2620. *Dictyobia atra* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.

Locality: Calif.

2621. *Dictyobia combinata* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 43, 1910.

Locality: Calif.

Genus *Dictyonia* Uhl.

Haplotype *obscura* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 40, 1889.

2622. *Dictyonia obscura* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 41, 1889.

Locality: Calif.

Genus *Dyctidea* Uhl.

Logotype *angustata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 37, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 170, 1906.

2623. *Dyctidea angustata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 37, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 170, fig. 37, 1906.

Locality: Calif.

2624. *Dyctidea intermedia* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 38, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 171, 1906.

Locality: Calif.

Genus *Danepteryx* Uhl.

Haplotype *manca* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 42, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 174, 1906.

2625. *Danepteryx manca* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 42, 1889.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 174, fig. 35, 1906.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.

Locality: Calif.

2626. *Danepteryx lurida* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 175, 1906.

Locality: Calif.

2627. *Danepteryx barbarae* Kirk.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 23, 1908.

Locality: Calif.

2628. *Danepteryx artemesia* Kirk.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 23, 1908.

Locality: Calif.

Genus **Osbornia** Ball
Orthotype *cornuta* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 41, 1910.

2629. **Osbornia cornuta** Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 42, 1910.

Localities: Utah, Calif.

Genus **Issus** Fabr.
Orthotype *coleoptratus* (Geof.)

Fabricius, Syst. Rhyng., p. 99, 1803.

Germar, Mag. d. Ent., iii, p. 201, 1818.

Duponchel, Revue Zool., ii, p. 24, 1839 (names *pectinipennis* Guer. pseudotype).

Spinola, Ann. Soc. Ent. Fr., viii, p. 343, 1839.

Amyot and Serville, Hémip., p. 518, 1843.

Walker, List Homop., ii, p. 361, 1851.

Stål, Of. Vet. Akad. Forh., xvii, p. 208, 1861.

Stål, Rio Jan. Hemip., ii, p. 67, 1862.

Stål, Hemip. Afr., iv, p. 361, 1866.

Kirschbaum, Cicad. v. Wiesbd., p. 12, 1868.

Sahlberg, Cicad., p. 394, 1871.

Fieber, Cicad. d'Eur., i, p. 77, 1875; ii, p. 244, 1876.

Mayr, Tabellen, p. 18, 1884.

Uhler, Stand. Nat. Hist., ii, p. 234, 1884.

Ashmead, Ent. Am., v, p. 5, 1889.

Melichar, Cicad. Mitt. Eur., p. 40, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 22, pl. 1, fig. 14, 1896.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 184, 1906.

Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 105, 1916.

2630. **Issus servillei** Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 351, 1839.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 192, 1906.

Locality: N. Am."

Genus **Thionia** Stål
Logotype *longipennis* (Spin.)

Stål, Berl. Ent. Zeit., iii, p. 321, 1859.

Stål, Of. Vet. Akad. Forh., xviii, p. 209, 1861.

Stål, Hemip. Afr., iv, p. 207, 1866.

Stål, Of. Vet. Akad. Forh., xxvii, p. 760, note, 1870.

Ashmead, Ent. Am., v, p. 5, 1889.

Fowler, Biol. Centr. Am., Homop., i, pp. 114, 122, 1904.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 268, 1906.

2631. **Thionia simplex** (Germ.)

Germar, Thon's Ent. Archiv., ii, p. 51, 1830, *Issus*.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 273, 1906.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

Localities: N. J., Md., D. C., N. C., Fla., Ohio, Ky., Mo., Texas.

2632. *Thionia elliptica* (Germ.)

- Germar, Thon's Ent. Archiv., ii, p. 51, 1830, *Issus*.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 277, 1906.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
patulifrons Walker, Ins. Saund., Homop., p. 45, 1858, *Issus*.
 Localities: N. J., D. C., N. C., Ga., Ky., Mo.

2633. *Thionia transversalis* Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 281, 1906.
 Locality: "N. Am."

2634. *Thionia bullata* (Say)

- Say, Jl. Acad. Nat. Sci. Phila., vi, p. 240, 1830; Compl. Writ., ii, p. 375, *Flata*.
 Walker, List Homop., ii, p. 470, 1851, *Pocilloptera*.
 Van Duzee, Psyche, v, p. 389, 1890.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 282, 1906.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
conspersus Walker, List Homop., ii, p. 365, 1851, *Issus*.
 Uhler, Stand. Nat. Hist., ii, p. 234, 1894, *Tylana*.
 Localities: Ont., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio.

2635. *Thionia ocellata* Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 283, 1906.
 Locality: "N. Am."

2636. *Thionia producta* Van D.

- Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.
 Locality: Colo.

Genus *Picumna* StålLogotype *varians* Stål

- Stål, Stet. Ent. Zeit., xxv, p. 52, 1864.
 Stål, Hemip. Afr., iv, p. 207, 1866.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 760, 1870.
 Fowler, Biol. Centr. Am., Homop., i, pp. 114, 127, 1904.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 289, 1906.

2637. *Picumna ovatipennis* (Walk.)

- Walker, List Homop., Suppl., p. 88, 1858, *Issus*.
 Fowler, Biol. Centr. Am., Homop., i, p. 128, pl. 12, fig. 29, 1904.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 290, 1906.

Genus *Issomorphus* Melich.Logotype *maculatus* Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 292, 1906.

2638. *Issomorphus maculatus* Melich.

- Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, ii, pt. 4, p. 293, 1906.
 Locality: N. Mex.

Subfamily ACANALONIINAE (A. & S.)

- Amyot and Serville, Hémip., pp. lviii, 520, 1843, *Acanonides*.
 Stål, Rio Jan. Hemip., ii, p. 68, 1862, *Acanalonidae*.
 Stål, Hemip. Afr., iv, p. 131, 1866, *Acanoniida*.
 Stål, Hemip. Fabr., ii, p. 106, 1869, *Acanoniida*.
 Berg, Hemip. Argent., p. 228, 1879, *Acanoniina*.
 Ashmead, Ent. Am., v, p. 2, 1889, *Acanoniinae*.
 Fowler, Biol. Centr. Am., Homop., i, p. 45, 1900.
 Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, pp. 179, 181, 1901, *Acanalonidae*.
 Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, p. 9, 1904.
 Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 495, 1908, *Acanalonida*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909. [pp. 9, 94, 1907.
Amphiscepiinae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906, iii,

Genus Acanalonia Spin.Haplotype *servillei* Spin.

- Spinola, Ann. Soc. Ent. Fr., viii, p. 447, 1839.
 Stål, Rio Jan. Hemip., ii, p. 68, 1862.
 Fowler, Biol. Centr. Am., Homop., i, p. 46, 1900.
 Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, p. 183, 1901.
 Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 297, 1910.
 ‡*Acanonia* Amyot and Serville, Hémip., p. 520, 1843.
 Stål, Of. Ver. Akad. Forh., xix, p. 491, 1862.
 Stål, Hemip. Fabr., ii, p. 106, 1869.
 Berg, Hemip. Argent., p. 228, 1879.
 Ashmead, Ent. Am., v, p. 2, 1889.
 †*Amphiscepa* Uhler, Stand. Nat. Hist., ii, p. 235, 1884.
 Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, p. 182, 1901.
 Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 215, 1906.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 94, 1907; iv, p. 65, 1907.
 [The true *Amphiscepa* Germ. is an Issid genus and has for type *nodipennis* Germ., and of which *Issocepa* Melich. is a synonym. There has never been a genus *Amphiscepa* Say as stated by Melichar.]

2639. Acanalonia bivittata (Say)

- Say, Jl. Acad. Nat. Sci. Phila., iv, p. 335, 1825; Compl. Writ., ii, p. 255, *Flata*.
 Walker, List Homop., ii, p. 469, 1851, *Pocilloptera*.
 Stål, Berl. Ent. Zeit., vi, p. 311, 1862, *Acanonia*.
 Uhler, Stand. Nat. Hist., ii, p. 235, 1884, *Amphiscepa*.
 Van Duzee, Psyche, v, p. 389, 1890, *Amphiscepa*.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Amphiscepa*.
 Townsend, Can. Ent., xxvi, p. 312, 1894, *Acanonia*.
 Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 183, 1901, *Amphiscepa*.
 Swezey, Ohio Nat., iii, p. 354, 1903 (life history).
 Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Amphiscepa*.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907, *Amphiscepa*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., xii, p. 19, 1913, *Amphiscepa*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915, *Amphiscepa*.

malina Germar, Thon's Ent. Archiv., ii, p. 52, 1830, *Amphiscepa*.

nana Walker, List Homop., ii, p. 466, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, pp. 489, 491, 1862, *Acanonia*.

a. var. rubescens (Melich.)

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 183, 1901, *Amphiscepa*.

Localities: Ont., N. Y., N. J., Pa., D. C., Va., N. C., Ga., Fla., Ohio,

Wise., Minn., Ia., Kans., Mo., Ark., Texas, Ariz. (Mexico.)

2640. *Acanalonia pumila* (Van D.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 495, 1908, *Amphiscepa*.

Van Duzee, Can. Ent., xli, p. 127, 1909, *Amphiscepa*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: Fla. (Bermudas.)

2641. *Acanalonia immaculata* (Kirk.)

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907; xii, p. 19, 1913,

Localities: Ariz. (Mexico.) [*Amphiscepa*.]

2642. *Acanalonia latifrons* (Walk.)

Walker, List Homop., ii, p. 457, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia*.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 186, 1901.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

Localities: N. C., Ga., Fla., La.

2643. *Acanalonia servillei* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 448, pl. 16, fig. 2, 1839.

Amyot and Serville, Hémip., p. 520, 1843, *Acanonia*.

Guerin in La Sagra, Hist. de Cuba, Ins., p. 179, 1857, *Acanonia*.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 73, *Acanonia*.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 186, 1901.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 38, 1907.

lata Walker, List Homop., ii, p. 462, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia*.

robusta Walker, List Homop., ii, p. 449, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia*.

quadrata Walker, List Homop., ii, p. 460, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia*.

Localities: Pa., Fla.

2644. *Acanalonia concinnula* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 49, pl. 7, fig. 9, 1900.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 187, 1901.

Localities: Texas. (Mexico.)

2645. *Acanalonia mollicula* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.

Locality: Calif.

2646. *Acanalonia clypeata* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 496, 1908.

Localities: Utah, Nevada.

2647. *Acanalonia conica* (Say)Say, Jl. Acad. Nat. Sci. Phila., vi, p. 238, 1830; Compl. Writ., ii, p. 373, *Flata*.Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 13, p. 61, 1887, *Flata* (larvae).Van Duzee, Psyche, v, p. 389, 1890, *Flata*.Ashmead in Smith, Cat. Ins. N. J., edn. 1, p. 438, 1890, *Flata*.Forbes and Hart, Ill. Agr. Exp. Sta., Bul. 60, p. 431, 1900, *Chlorochara*.Howard, Insect Book, p. 236, 1901, *Chlorochara*.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 189, 1901.

Osborn, Ohio Nat., iv, p. 100, 1904, *Chlorochara*.Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Inspect., Bul. 3, p. 7, 1904, *Chloro-*

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915. [chara.]

? *panimae* Fowler, Biol. Centr. Am., Homop., i, p. 47, pl. 7, fig. 2, 1900.

Localities: Va., N. C., Miss., La., Ohio, Ky., Ind., Ill., Mo., Ark., Texas.

Subfamily FLATINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 204, 387, 1839, *Flatoides*.Amyot and Serville, Hémip., pp. lviii, 521, 1843, *Flatides*.Walker, List Homop., ii, p. 403, 1851, *Flatoides*.Stål, Rio Jan. Hemip., ii, p. 68, 1862, *Flatidae*.Stål, Hemip. Afr., iv, pp. 131, 235, 1866, *Flatida*.Stål, Of. Vet. Akad. Forh., xxvii, p. 771, 1870, *Flatina*.Berg, Hemip. Argent., p. 229, 1879, *Flatina*.Uhler, Stand. Nat. Hist., ii, p. 236, 1884, *Flatida*.

Ashmead, Ent. Am., v, p. 2, 1889.

Fowler, Biol. Centr. Am., Homop., i, pp. 45, 50, 1900.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 194, 1901, *Flatidae*.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 397, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 37, 1907.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1908, *Flatida*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.

Horvath, Ann. Mus. Natl. Hung., ix, p. 33, 1911, *Flatidae*.*Pockillopterinae* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906;

[iii, pp. 9, 93, 1907.]

TRIBE FLATINI (Melich.)

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, pp. 179, 194, 1901, *Flatinac*.

[(Gruppe.)]

Pockillopterini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 93, 1907.Genus *Carthaea* StålHaplotype *caudata* Stål

Stål, Rio Jan. Hemip., ii, pp. 68, 69, 1862.

Stål, Hemip. Afr., iv, p. 236, 1866.

[Fabr. pseudotype].

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 30, 1902 (names *emortua*2648. *Carthaea ricanoides* (Spin.)Spinola, Ann. Soc. Ent. Fr., viii, p. 442, 1839, *Pockilloptera*.Fowler, Biol. Centr. Am., Homop., i, p. 69, 1900, *Bladina*.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 33, 1902.

Localities: Calif. (?). (Mexico.)

Genus **Ormenis** Stål

Logotype *rufo-terminata* Stål = *perfecta* (Walk.)

Stål, Rio Jan. Hemip., ii, pp. 68, 69, 1862.

Stål, Hemip. Afr., iv, pp. 236, 243, 1866.

Uhler, Stand. Nat. Hist., ii, p. 236, 1884.

Ashmead, Ent. Am., v, p. 3, 1889.

Fowler, Biol. Centr. Am., Homop., i, pp. 50, 55, 1900.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 64, 1902.

Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 313, 1910 (names *perfecta* Walk.

Jacobi, Deut. Ent. Zeit. for 1915, p. 173. [type].)

2649. **Ormenis pruinosa** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 237, 1830; Compl. Writ., ii, p. 373, *Flata*.

Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Pocilloptera*.

Walker, List Homop., ii, p. 469, 1851, *Pocilloptera*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 436, 1856, *Pocilloptera*.

Riley, 5th Rept. Nox. Ins. Mo., p. 122, 1873, *Pocilloptera* (egg laying).

Saunders, Ins. Inj. to Fruits, p. 357, 1883, *Pocilloptera*.

Cooke, Inj. Ins. Orch. and Vineyard, p. 225, 1883, *Pocilloptera*.

Uhler, Stand. Nat. Hist., ii, p. 237, 1884.

[(larvae).]

Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 13, p. 61, 1887, *Pocilloptera*

Packard, 5th Rept. U. S. Ent. Comm., pp. 281, 425, 1890, *Pocilloptera*.

Van Duzee, Psyche, v, p. 389, 1890.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.

Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 32, p. 38, 1894.

Townsend, Can. Ent., xxvi, p. 316, 1894.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 71, pl. 5, fig. 7, 1902.

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

?*farinosa* Walker, Ins. Saund., Homop., p. 55, 1858, *Pocilloptera*.

Localities: Ont., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Miss.,
Ohio, Mich., Minn., Ia., Neb., Kans., Mo., Ark., Texas, Ariz.,
Calif. (West Indies, Mexico.)

2650. **Ormenis conformis** Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 73, 1902.

Locality: N. Mex.

2651. **Ormenis infuscata** Stål

Stål, Stet. Ent. Zeit., xxv, p. 55, 1864.

Fowler, Biol. Centr. Am., Homop., i, p. 56, 1900.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 77, 1902.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.

Localities: Ariz., Calif. (Mexico, Centr. Am.)

2652. *Ormenis saucia* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 498, 1912.

Localities: Utah, Nevada.

2653. *Ormenis venusta* Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 84, 1902.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

Localities: N. C., Ga., Texas.

2654. *Ormenis pauperata* Melich.

Melichar, Ann. k. k. Natl. Hofms., Wien, xvii, p. 85, 1902.

Locality: Texas.

2655. ?*Ormenis conformata* Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 87, 1902.

Locality: "America."

2656. *Ormenis septentrionalis* (Spin.)Spinola, Ann. Soc. Ent. Fr., viii, p. 436, 1839, *Pocilloptera*.

Uhler, Stand. Nat. Hist., ii, p. 237, 1884.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 88, 1902.

Swezey, Ohio Nat., iii, p. 355, 1903 (life history).

Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Pocilloptera*.

Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

Localities: N. Y., N. J., Pa., Md., D. C., N. C., Ga., Ohio, Kans.

2657. *Ormenis barberi* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 498, 1912.

Locality: Ariz.

2658. *Ormenis chloris* Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xv, ii, p. 89, pl. 4, fig. 18, 1902.

Locality: N. Am.

2659. *Ormenis relictæ* (Fabr.)Fabricius, Syst. Rhyng., p. 52, 1803, *Flata*.

Stål, Hemip. Fabr., ii, p. 111, 1869.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 92, 1902.

Locality: "N. Am." (Fabr. and Stål, or S. Am., Melich.).

2660. *Ormenis contaminata* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 71.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 93, pl. 5, fig. 9, 1902.

Localities: Texas, Ariz., Calif. (West Indies, Mexico.)

2661. *Ormenis proxima* (Walk.)Walker, List Homop., ii, p. 459, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 100, 1902.

Locality: Fla.

2662. *Ormenis rufifascia* (Walk.)Walker, List Homop., ii, p. 458, 1851, *Pocilloptera*.

Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 101, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Locality: Fla.

Genus **Mistharnophantia** Kirk.

Haplotype *sonorana* Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907.

2663. **Mistharnophantia sonorana** Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 66, 1907.

Locality: Ariz.

Genus **Cyarda** Walk.

Haplotype *difformis* Walk.

Walker, List Homop., Suppl., p. 121, 1858.

Stål, Hemip. Afr., iv, p. 237, 1866.

Stål, Berl. Ent. Zeit., x, p. 394, 1867 (names *acuminipennis* Spin. pseudotype).

Uhler, Stand. Nat. Hist., ii, p. 238, 1884.

Ashmead, Ent. Am., v, p. 3, 1889.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 133, 1902. [Stål of 1866.]

Gelastophantia Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Cyarda*).

2664. **Cyarda melichari** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 40, 1907 (n.n. for *†punctata*).

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 496, 1908. [Melich.].

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1908.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.

†punctata Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 135, pl. 7, fig. 17.

Localities: N. C., Fla. (West Indies.) [1902 (not of Walker).]

Genus **Rhynchopteryx** Van D.

Orthotype *caudata* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.

2665. **Rhynchopteryx caudata** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.

Locality: Calif.

TRIBE FLATOIDINI (Melich.)

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, pp. 179, 199, 1901, *Flatoidinae*.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 449, 1906, *Flatoidesaria*. (Division.)

Phalacnomorphini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 93, [1907].

Genus **Flatoides** Guer.

Haplotype *tortrix* Guer.

Guerin, Icon. Règne Animal, Ins., p. 362, 1843 (antedates Am. & Serv.).

Stål, Of. Vet. Akad. Forh., xix, p. 489, 1862.

Stål, Hemip. Afr., iv, pp. 237, 248, 1866.

Fowler, Biol. Centr. Am., Homop., i, p. 60, 1900.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 459, 1906.

Phalaenomorpha Amyot and Serville, Hémip., p. 525, 1843.

†*Elidiptera* Walker, List Homop., ii, p. 328, 1851.

†*Cyarda* Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.

2666. *Flatoides punctatus* (Walk.)

Walker, List Hemip., ii, p. 332, 1851, *Elidiptera*.

Uhler, Stand. Nat. Hist., ii, p. 238, 1884, *Dascalia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.

Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 319, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Locality: Fla.

2667. *Flatoides acutus* (Uhl.)

Uhler, Proc. Ent. Soc. Wash., iv, p. 514, 1901, *Dascalia*.

†*grisea* Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 41, 1907, *Dascalia*.

2668. *Flatoides signatus* Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 219, 1902.

Locality: N. Am.

2669. *Flatoides scabrosus* Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 220, pl. 6, fig. 4, 1902.

Localities: "Ga." (Brazil.)

2670. *Flatoides fuscus* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 497, 1908.

Locality: Ariz.

Subfamily DERBINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 205, 377, 1839, *Derboides*.

Amyot and Serville, Hémip., pp. lvii, 512, 1843, *Derbides*.

Walker, List Homop., ii, p. 396, 1851, *Derboides*.

Stål, Hemip. Afr., iv, pp. 130, 192, 1866, *Derbida*.

Stål, Of. Vet. Akad. Forh., xxvii, p. 750, 1870, *Derbina*.

Uhler, Stand. Nat. Hist., ii, p. 232, 1884, *Derbida*.

Ashmead, Ent. Am., v, p. 23, 1889, *Derbini*. (Tribe.)

Fowler, Biol. Centr. Am., Homop., i, p. 70, 1900, *Derbidae*.

Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 295, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95, 163,

Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911, *Derbidae*. [1907, (*Derbidae*).

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 28, 1913. (Keys.)

Genus *Cyclokara* Muir

Orthotype *girdlestoni* Muir

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, pp. 32, 33, 1912.

2671. *Cyclokara vanduzei* (Ball)

Ball, Can. Ent., xxxiv, p. 260, 1902, *Patara*.

Cyclokara vanduzei Muir in litt.

Localities: N. Y., Pa., Ohio.

Genus **Lamenia** Stål
Haplotype *caliginea* Stål

- Stål, Freg. Eugen. Resa, Ins., p. 277, 1859. .
 Stål, Hemip. Afr., iv, p. 193, 1866.
 Ashmead, Ent. Am., v, p. 4, 1889.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 403, 1906; iii, pp. 164, 169, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 500, 1912 (synopsis).
Herpis Stål, Rio Jan. Hemip., ii, p. 8, 1862.
 Muir, Can. Ent., xlv, p. 112, 1913.
Ccdusa Fowler, Biol. Centr. Am., Homop., i, p. 112, 1904.
 Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 35, 1913.

2672. **Lamenia vulgaris** (Fitch)

- Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Pocilloptera*.
 Uhler, Stand. Nat. Hist., ii, p. 233, 1884.
 Van Duzee, Can. Ent., xxi, p. 7, 1889.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Can. Ent., xli, p. 381, 1909.
 Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 501, 1912.
 Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 35, 1913.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
fitchi Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 403, 1906.
 Localities: Quebec, Ont., N. Y., N. J., Pa., D. C., Va., N. C., Ga.,
 Ohio, Ill., Ia., Kans., Texas.

2673. **Lamenia obscura** Ball

- Ball, Can. Ent., xxxiv, p. 262, 1902.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909; x, p. 502, 1912.
†vulgaris Van Duzee, Can. Ent., xxiii, p. 169, 1891.
 Localities: Ont., Me., Mass., N. Y., N. J., N. C., Fla., Kans., Colo.

2674. **Lamenia californica** Van D.

- Van Duzee, Can. Ent., xxiii, p. 169, 1891.
 Gillette and Baker, Hemip. Colo., p. 70, 1895.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 502, 1912.
 Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
 Localities: Colo., Ariz., Calif.

2675. **Lamenia praecox** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 502, 1912.
 Locality: Ariz.

2676. **Lamenia edentula** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 503, 1912.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
 Localities: N. J., N. C., Ga.

2677. *Lamenia maculata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 503, 1912.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.

Localities: Ont., N. C.

Genus *Cenchrea* Westw.

Orthotype *dorsalis* Westw.

Westwood, Trans. Linn. Soc. Lond., xix, p. 15, 1842.

Ashmead, Ent. Am., v, p. 25, 1889.

Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 80, 1909.

2678. *Cenchrea uhleri* Ball

Ball, Can. Ent., xxxiv, p. 261, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Localities: N. J., Md., D. C., Kans.

2679. *Cenchrea heidemanni* Ball

Ball, Can. Ent., xxxiv, p. 261, 1902.

Localities: D. C., Kans.

2680. *Cenchrea fulva* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909.

Locality: Fla.

Genus *Amalopota* Van D.

Haplotype *uhleri* Van D.

Van Duzee, Can. Ent., xxi, p. 176, 1889; xli, p. 384, 1909.

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.

2681. *Amalopota uhleri* Van D.

Van Duzee, Can. Ent., xxi, p. 178, 1889.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.

Localities: Ont., N. Y., Ill.

2682. *Amalopota fitchi* Van D.

Van Duzee, Can. Ent., xxv, p. 280, 1893.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.

Van Duzee, Can. Ent., xli, p. 381, 1909.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. Y., Pa., N. C., Kans.

Genus *Anotia* Kby.

Haplotype *bonuctii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 20, 1819.

Germar, Silb. Revue Ent., i, p. 176, 1833.

Burmeister, Handb. d. Ent., ii, p. 153, 1835.

Duponchel, Revue Zool., ii, p. 205, 1839 (names *coccinea* Guer. pseudotype).

Spinola, Ann. Soc. Ent. Fr., viii, p. 384, 1839.

Westwood, Trans. Linn. Soc. Lond., xix, p. 12, 1842.

Blanchard, Hist. des Ins., Hémip., p. 175, 1840.

- Fowler, Biol. Centr. Am., Homop., i, p. 77, 1904.
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.

2683. *Anotia bonnetii* Kby.

- Kirby, Trans. Linn. Soc. Lond., xiii, p. 21, pl. 1, fig. 15, 1819.
Burmeister, Handb. d. Ent., ii, p. 153, 1835.
Spinola, Ann. Soc. Ent. Fr., viii, p. 385, 1839.
Blanchard, Hist. des Ins., Hémip., p. 176, 1840.
Fitch, Homop. N. Y. St. Cab., p. 47, 1851.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Localities: Ont., N. Y., Ga., Kans.

2684. *Anotia westwoodi* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
Van Duzee, Psyche, v, p. 388, 1890.
Localities: N. Y., Ohio, Kans.

2685. *Anotia burnetii* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 395, 1856.
Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., N. C., Ill.

2686. *Anotia robertsoni* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 395, 1856.
Locality: Ark.

2687. *Anotia sayi* Ball

- Ball, Can. Ent., xxxiv, p. 259, 1902.
Locality: N. Y.

2688. *Anotia kirkaldyi* Ball

- Ball, Can. Ent., xxxiv, p. 259, 1902 (spelled *Kirkaldyi*).
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Localities: Pa., Ia., Kans.

Genus *Otiocerus* Kby.

Logotype *stollii* Kby.

- Kirby, Trans. Linn. Soc. Lond., xiii, p. 13, 1819.
Latreille in Cuvier, Règne Animal, edn. 2, v, p. 216, 1829.
Germar, Silb. Revue Ent., i, p. 176, 1833.
Burmeister, Hand. d. Ent., ii, p. 152, 1835.
Duponchel, Revue Zool., ii, p. 205, 1839 (names *stollii* type).
Spinola, Ann. Soc. Ent. Fr., viii, p. 380, 1839.
Blanchard, Hist. des Ins., Hémip., p. 176, 1840.
Westwood, Trans. Linn. Soc. Lond., xix, p. 12, 1842.
Amyot and Serville, Hémip., p. 513, 1843.
Stål, Hemip. Afr., iv, p. 192, 1866.
Ashmead, Ent. Am., v, p. 24, 1889, *Otiocera*.
Van Duzee, Can. Ent., xxi, p. 158, 1889.
Fowler, Biol. Centr. Am., Homop., i, p. 74, 1900.
Kirkaldy, Entomol., xxxiv, p. 219, 1901 (cites *stollii* as type).
Kirkaldy, Entomol., xl, p. 255, 1907 (names *coqueberti* pseudotype).

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.

Van Duzee, Can. Ent., xlii, p. 387, 1914.

[*stolli* Kby.)

Cobax Germar, Mag. d. Ent., iv, p. 1, 1821 (haplotype *winthemi* Germ. =

||*Hynnis* Burmeister, Handb. d. Ent., ii, p. 153, 1835 (haplotype *rosea* Burm.

Blanchard, Hist. des Ins., Hémip., p. 175, 1840. [= *degeeri* Kby.).

†*Amphiscepa* Provancher, Pet. Faune Ent. Can., iii, p. 217, 1889.

Apache, Kirkaldy, Entomol., xxxiv, p. 6, 1901 (n.n. for *Hynnis* Burm.).

2689. *Otiocerus degeerii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 16, 1819.

Fitch, Homop. N. Y. St. Cab., p. 46, 1851.

Uhler, Stand. Nat. Hist., ii, p. 232, 1884.

Van Duzee, Can. Ent., xxi, pp. 7, 159, 1889.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.

Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Van Duzee, Can. Ent., xlii, p. 325, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

rosea Burmeister, Handb. d. Ent., ii, p. 154, 1835, *Hynnis*.

Blanchard, Hist. des Ins., Hémip., p. 175, 1840, *Hynnis*.

†*coquebertii* Provancher, Pet. Faune Ent. Can., iii, p. 217, 1889, *Amphiscepa*.

Localities: Ont., N. Y., N. J., Pa., Md., N. C., Ga., Fla., Ia., Kans., Mo., Wash.

2690. *Otiocerus stollii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 16, 1819.

Burmeister, Handb. d. Ent., ii, p. 153, 1835.

Signoret, Ann. Soc. Ent. Fr., viii, p. 383, 1839.

Blanchard, Hist. des Ins., Hémip., p. 176, 1840.

Walker, List Homop., ii, p. 401, 1851.

Van Duzee, Can. Ent., xxi, p. 159, 1889.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.

winthemi Germar, Mag. d. Ent., iv, pp. 5, 446, 1821, *Cobax*.

Localities: N. Y., Pa., Ga., Ohio, Ia.

2691. *Otiocerus abbotii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 17, 1819.

Fitch, Homop. N. Y. St. Cab., p. 46, 1851.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: N. Y., Ga., Fla.

2692. *Otiocerus francilloni* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 17, 1819.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Localities: N. J., Ga.

2693. *Otiocerus coquebertii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, pl. 1, fig. 14, 1819.

Westwood, Trans. Linn. Soc. Lond., xix, p. 12, pl. 2, fig. 5, 1842.

Fitch, Homop. N. Y. St. Cab., p. 46, 1851.

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 393, 1856.
 Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
 Van Duzee, Can. Ent., xxi, pp. 7, 159, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
 Lugger, 6th Rept. Minn. St. Ent., p. 117, 1900.
 Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
 Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: Ont., N. H., N. Y., Pa., N. C., Ga., Ill., Minn., Texas.

2694. *Otiocerus reaumurii* Kby.

- Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, 1819.

Locality: Ga.

2695. *Otiocerus signoretii* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
 Van Duzee, Can. Ent., xxi, p. 176, 1889.
 Van Duzee, Psyche, v, p. 388, 1890.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.

Localities: N. Y., Ia., Mo., Ark., Texas.

2696. *Otiocerus wolffii* Kby.

- Kirby, Trans. Linn. Soc. Lond., xiii, p. 19, 1819.
 Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
 Van Duzee, Can. Ent., xxi, p. 176, 1889.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
 Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
 Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Localities: N. Y., Pa., Ga., Ohio, Ia.

2697. *Otiocerus amyotii* Fitch

- Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
 Van Duzee, Psyche, v, p. 388, 1890.
 Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
 Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

†*stollii* Amyot and Serville, Hémip., p. 514, 1843.

Localities: N. Y., Pa., Ga., Ohio, Ia.

2698. *Otiocerus kirbyii* Fitch

- Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
 Van Duzee, Psyche, v, p. 388, 1890.

Locality: N. Y.

2699. *Otiocerus schellenbergii* Kby.

- Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, 1819.

Localities: N. Y., Ga.

Subfamily DELPHACINAE (Spin.)

- Spinola, Ann. Soc. Ent. Fr., viii, p. 329, 1839, *Delphacoides*.
 Amyot and Serville, Hémip., pp. lvii, 510, 1843, *Delphacides*.
 Stål, Hemip. Afr., iv, pp. 131, 175, 1866, *Delphacida*.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 517, 1866, *Delphacini*.

- Kirschbaum, Cicad. v. Wiesbd., p. 10, 1868, *Delphacidae*.
 Stål, Of. Vet. Akad. Forh., xxvii, p. 747, 1870, *Delphacina*.
 Fieber, Cicad. d'Eur., i, p. 57, 1875, *Delphacini*.
 Uhler, Stand. Nat. Hist., ii, p. 240, 1884, *Delphacida*.
 Ashmead, Ent. Am., v, p. 2, 1889.
 Melichar, Cicad. Mitt. Eur., p. 18, 1896, *Delphacini*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 225, 1897, *Delphacidae* (monograph).
 Fowler, Biol. Centr. Am., Homop., i, p. 130, 1905, *Delphacidae*.
 Distant, Fauna Brit. Ind., Rhyn., iii, pp. 178, 465, 1906.
 Horvath, Ann. Mus. Natl. Hung., ix, p. 30, 1911, *Delphacidae*.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 557, 1914, *Delphacidae* (monograph).
 Van Duzee, Psyche, xxi, p. 163, 1914 (review of Crawford paper).
 Muir, Can. Ent., xlvii, pp. 208, 267, 296, 317, 1915 (synopsis).
Asiracinae Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 52, 1902.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95,
 [123, 1907, *Asiracidae*.

Genus **Copicerus** Swartz
 Haplotype *irroratus* Swartz

- Swartz, Kongl. Vet. Nya Handl., xxiii, p. 180, 1802.
 Stål, Of. Vet. Akad. Forh., xiv, p. 53, 1857.
 Stål, Ann. Soc. Ent. Fr., ser. 3, v, p. 337, 1858.
 Stål, Hemip. Afr., iv, p. 175, 1866.
 Ashmead, Ent. Am., v, p. 25, 1889.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 230, 1897.
 Fowler, Biol. Centr. Am., Homop., i, p. 130, 1905.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 564, 1914.
Holotus Guérin in La Sagra, Hist. de Cuba, Ins., p. 180, 1857.
Jerala Walker, List Homop., Suppl., p. 85, 1858.

2700. **Copicerus irroratus** Swartz

- Swartz, Kong. Vet. Nya Handl., xxiii, p. 181, pl. 6, fig. 2, 1802 (spelled
 Stål, Of. Vet. Akad. Forh., xiv, p. 53, 1857. [i-ro-cu-tus).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 230, 1897.
 Fowler, Biol. Centr. Am., Homop., i, p. 130, pl. 13, figs. 1, 2, 1905.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907.
 Crawford, Proc. U. S. Natl., xlv, p. 564, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
thoracicus Guérin in La Sagra, Hist. de Cuba, Ins., p. 180, pl. 13, fig. 17,
singula Walker, List Homop., Suppl., p. 85, 1858, *Jerala*. [1857, *Holotus*.
 Stål, Of. Vet. Akad. Forh., xix, p. 488, 1858, *Jerala*.
 Localities: Fla. (West Indies.)

Genus **Stenocranus** Fieb.
 Logotype *lincola* (Germ.) = *minutus* (Fabr.)

- Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.
 Fieber, Cicad. d'Eur., i, p. 83, 1875; ii, pl. 7, 1876; iii, p. 10, 1878.
 Mayr, Tabellen, p. 19, 1884.
 Ashmead, Ent. Am., v, p. 27, 1889.
 Melichar, Cicad. Mitt. Eur., p. 56, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 230, 1897.
 Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 126, 1907.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 587, 1914.

Muir, Can. Ent., xlvii, p. 299, 1915.

§*Stenocarenum* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pl. 8, fig. 3, 1866.

Sahlberg, Cead., p. 413, 1871 (part).

2701. ***Stenocranus dorsalis*** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Delphax*.

Walker, List Homop., iv, p. 1136, 1852, *Delphax*.

Van Duzee, Psyche, v, p. 28, 1888, *Liburnia*; p. 390, 1890.

Harrington, Ottawa Nat., vi, p. 31, 1892.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.

Gillette and Baker, Hemip. Colo., p. 69, 1895.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 231, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Slosson, Ent. News, xvii, p. 326, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 196, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Van Duzee, Can. Ent., xlv, p. 325, 1912.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 588, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

unipunctata Provancher, Nat. Can., iv, p. 319, 1872, *Delphax*.

Provancher, Pct. Faune Ent. Can., iii, p. 224, 1889, *Delphax*.

a. var. vittatus (Stål)

Stål, Berl. Ent. Zeit., vi, p. 315, 1862, *Delphax*.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 592, 1914.

lautus Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 231, 1897.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

Van Duzee, Check List Hemip., p. 83, 1916.

Localities: Quebec, Ont., N. H., N. J., Pa., D. C., Va., N. C., S. C.,
Fla., Ohio, Ill., Ia., Neb., Colo.

2702. ***Stenocranus similis*** Craw.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 590, 1914.

Locality: Ala.

2703. ***Stenocranus felti*** Van D.

Van Duzee, Trans. Am. Ent. Soc. xxxvi, p. 88, 1910.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 591, 1914.

Localities: N. H., N. Y.

2704. ***Stenocranus palaetus*** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897; ix, p. 196, 1909.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 591, 1914.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Locality: Fla.

2705. ***Stenocranus saccharivorus*** (Westw.)

Westwood, Mag. Nat. Hist., vi, p. 413, 1833, *Delphax*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897.

- Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 409, 1906; iii, p. 139, 1907.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907; ix, p. 196, 1909.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 589, 1914.
 Van Duzee, Psyche, xxi, p. 165, 1914.

Localities: Fla. (West Indies, Hawaiian Isds.)

Genus **Kelisia** Fieb.

Haplotype *guttula* (Germ.)

- Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.
 Sahlberg, Cicad., p. 416, 1871.
 Fieber, Cicad. d'Eur., i, p. 83, 1875; ii, pl. 7, 1876; iii, p. 13, 1878.
 Mayr, Tabellen, p. 18, 1884.
 Ashmead, Ent. Am., v, p. 27, 1889.
 Melichar, Cicad. Mitt. Eur., pp. 50, 58, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 229, 232, 1897.
 Muir, Can. Ent., xlvii, p. 299, 1915.

2706. **Kelisia axialis** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897 (described).
 Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
 Osborn, Ohio Nat., iv, p. 100, 1904.
 Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 613, 1914, *Megamelus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

Localities: Ont., N. Y., Pa., Md., N. C., Ohio, Ia.

2707. **Kelisia crocea** Van D.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 233, 1897.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1897, *Stenocranus*.
 Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 591, 1914.
 Van Duzee, Psyche, xxi, p. 165, 1914.

Localities: Mass., Ia., Kans.

2708. **Kelisia salina** Ball

- Ball, Can. Ent., xxxiv, p. 264, 1902.

Locality: Colo.

2709. **Kelisia parvula** Ball

- Ball, Can. Ent., xxxiv, p. 264, 1902.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 631, 1914.
 Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: Fla., Ia., Kans.

Genus **Megamelanus** Ball

Orthotype *bicolor* Ball

- Ball, Can. Ent., xxxiv, p. 265, 1902.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 592, 1914.

2710. **Megamelanus bicolor** Ball

- Ball, Can. Ent., xxxiv, p. 265, 1902.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 592, 1914.

Localities: Colo., Calif.

2711. *Megamelanus frontalis* Crawf.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 593, 1914.

Locality: Colo.

2712. *Megamelanus elongatus* Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 196, 1909.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 593, 1914, *Megamelus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: Fla., La.

2713. *Megamelanus spartini* Osb.

Osborn, Ohio Nat., v, p. 375, 1905

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 593, 1914, *Megamelus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: N. Y., Fla.

2714. *Megamelanus rufivittatus* Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 119, 1905.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 593, 1914.

Locality: Ga.

Genus *Prokelisia* Osb.Haplotype *setigera* Osb.

Osborn, Ohio Nat., v, p. 373, 1905.

Muir, Can. Ent., xlvii, p. 300, 1915.

2715. *Prokelisia setigera* Osb.

Osborn, Ohio Nat., v, p. 373, 1905.

Locality: La.

2716. *Prokelisia marginata* (Van D.)Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 234, 1897, *Megamelus*.Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909, *Megamelus*.Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910, *Megamelus*.Crawford, Proc. U. S. Natl. Mus., xlv, p. 609, 1914, *Megamelus*.Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914, *Megamelus*.Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914, *Megamelus*.

Van Duzee, Check List Hemip., p. 83, 1916.

Localities: Mass., N. Y., N. J., Fla., Calif.

Genus *Megamelus* Fieb.Haplotype *notulus* (Germ.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.

Sahlberg, Cicad., pp. 74, 411, 1871.

Fieber, Cicad. d'Eur., i, p. 82, 1875; ii, pl. 7, 1876; iii, p. 7, 1878.

Mayr, Tabellen, p. 18, 1884.

Ashmead, Ent. Am., v, p. 26, 1889.

Melichar, Cicad. Mitt. Eur., pp. 49, 55, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 229, 233, 1897.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 127, 1907.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 602, 1914 (in part).

Van Duzee, Psyche, xxi, p. 165, 1914.

Muir, Can. Ent., xlvii, p. 301, 1915.

2717. **Megamelus notulus** (Germ.)

Germar, Thon's Ent. Archiv., ii, p. 57, 1830, *Delphax*.

Stål, Of. Vet. Akad. Forh., xi, p. 192, 1854, *Delphax*.

Walker, List Homop., Suppl., p. 323, 1858, *Delphax*.

Flor, Rhyn. Livl., ii, p. 45, 1861, *Delphax*.

Marshall, Ent. Mo. Mag., i, p. 266, 1865.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, pl. 8, fig. 2, 1866.

Sahlberg, Cicad., p. 412, 1871.

Scott, Ent. Mo. Mag., vii, p. 25, 1871, *Liburnia*.

Fieber, Cicad. d'Eur., iii, p. 9, 1878.

Meliehar, Cicad. Mitt. Eur., p. 55, pl. 4, figs. 1-8, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 38, pl. 4, figs. 3, 4, 1896, *Liburnia*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 233, 1897.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 609, 1914.

truncatipennis Boheman, Of. Vet. Akad. Forh., iv, p. 266, 1847, *Delphax*.

Boheman, Kongl. Vet. Akad. Handl. for 1847, p. 46, 1847, *Delphax*.

Stål, Of. Vet. Akad. Forh., xi, p. 190, 1854, *Delphax*.

Kirschbaum, Cicad. v. Wiesbd., p. 20, 1868, *Delphax*.

†*lineola* Stål, Of. Vet. Akad. Forh., xi, p. 190, 1854, *Delphax*.

†*albosignatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894; p. 259, [1897, *Achorotile* (young)].

a. var. **flavus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 609, 1914.

Localities: Ont., N. H., Mass., N. Y., Colo. (Europe.)

2718. **Megamelus piceus** Van D.

Van Duzee, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 5, 1894.

Van Duzee, Exp. Sta. Record, v, p. 792, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 190, 234, 1897.

Localities: N. Y., Mich.

2719. **Megamelus constrictus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 610, 1914.

a. var. **minutus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 610, 1914.

Localities: Colo., Calif.

2720. **Megamelus angulatus** Osh.

Osborn, Ohio Nat., v, p. 374, 1905.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 629, 1914.

Locality: Del.

2721. **Megamelus davisi** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 235, 1897.

Locality: Mich.

Genus **Macrotomella** Van D.

Haplotype *carinata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907.

Van Duzee, Psyche, xxi, p. 164, 1914.

Muir, Can. Ent., xlvii, p. 298, 1915.

2722. *Macrotomella carinata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907; ix, p. 197, 1909.
Crawford, Proc. U. S. Natl. Mus., xlv, p. 583, 1914, *Jassidaeus*.

Localities: Fla. (West Indies.)

Genus *Pissonotus* Van D.Orthotype *marginatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 236, 1897.

Muir, Can. Ent., xlvii, p. 301, 1915.

2723. *Pissonotus marginatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 236, 1897 (described).

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 596, 1914, *Dicranotropis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.

Localities: Quebec, Ont., N. Y., Pa., Fla., Ohio, Ia., Calif.

2724. *Pissonotus basalis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 238, 1897 (described).

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.

Van Duzee, Psyche, xxi, p. 165, 1914.

Localities: N. Y., Fla., Texas(?).

2725. *Pissonotus binotatus* Spnr.

Spooner, Can. Ent., xlv, p. 239, 1912.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 601, 1914, *Dicranotropis*.

Locality: Ga.

2726. *Pissonotus ater* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 237, 1897 (described).

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 600, 1914, *Dicranotropis*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.

Localities: N. Y., D. C., Fla., Ia.

2727. *Pissonotus divaricatus* Spnr.

Spooner, Can. Ent., xlv, p. 236, 1912.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 600, 1914, *Dicranotropis*.

Locality: N. Y.

2728. *Pissonotus pallipes* Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).

Baker, Ent. News, viii, p. 53, 1897 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 238, 1897 (described).

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 599, 1914, *Dicranotropis*.

Localities: N. Il., N. Y., Pa., Fla., Miss., Kans., Colo., Calif.

2729. *Pissonotus variegatus* Spnr.

Spooner, Can. Ent., xlv, p. 235, 1912.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 600, 1914, *Dicranotropis*.

Locality: Texas.

2730. *Pissonotus metzaria* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 611, 1914, *Megamelus*.

Locality: Wyo.

2731. *Pissonotus delicatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 237, 1897.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907; ix, p. 198, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 596, 1914, *Dicranotropis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.

Localities: N. J., D. C., Fla., Miss., Colo., Calif. (Jamaica.)

2732. *Pissonotus guttatus* Spnr.

Spooner, Can. Ent., xlv, p. 233, 1912.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 600, 1914, *Dicranotropis*.

Localities: Ont., N. Y., D. C.

2733. *Pissonotus dorsalis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).

Osborn, Ohio Nat., iv, p. 100, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 599, 1914, *Dicranotropis*.

Localities: N. Y., Ohio.

2734. *Pissonotus frontalis* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 597, 1914, *Dicranotropis*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.

Localities: Calif., Ore.

2735. *Pissonotus brunneus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 599, 1914, *Dicranotropis*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

Localities: Ont., Mass., N. Y., N. J., Pa., N. C., Fla., Ohio, Ia.

2736. *Pissonotus piceus* Spnr.

Spooner, Can. Ent., xlv, p. 238, 1912.

Locality: N. Y.

2737. *Pissonotus aphidioides* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Osborn, Ohio Nat., iv, p. 100, 1904.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 597, 1914, *Dicranotropis*.

Localities: Ont., N. Y., Ohio, Ia.

Genus **Peregrinus** Kirk.

Orthotype *maidis* Ashm.

Kirkaldy, Entomol., xxxvii, p. 175, 1904.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 407, 1906; iii, pp. 127, 132, 1907.

Kirkaldy, Fauna Hawai., ii, p. 577, 1910.

Muir, Can. Ent., xlvii, p. 299, 1915.

2738. **Peregrinus maidis** (Ashm.)

Ashmead, Psyche, v, p. 323, 1890, *Delphax*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 240, 1897, *Dicranotropis*.

Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Inspect., Bul. 3, p. 35, 1904,

Kirkaldy, Entomol., xxxvii, p. 176, 1904.

[*Dicranotropis*.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 407, 1906, iii, p. 132, pl. 10, fig.

[14, pl. 12, figs. 7, 8, 1907.

Kirkaldy, Ann. Soc. Ent. Belg., li, pp. 127, 301, 1907.

Kirkaldy, Entomol., xl, p. 283, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907.

Distant, Ann. Soc. Ent. Belg., li, p. 221, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909.

Kirkaldy, Fauna Hawai., ii, p. 577, 1910.

Melichar, Notes Leyden Mus., xxxvi, p. 111, 1913.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 595, 1914, *Dicranotropis*.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

Muir, Can. Ent., xlix, p. 147, 1917.

psylloides Lethierry, India Mus. Notes, iii, p. 105, 1896, *Delphax*.

Melichar, Homop. Fauna Ceyl., p. 101, pl. 2, fig. 22, 1903, *Liburnia*.

Distant, Fauna Brit. Ind., Rhyn., iii, p. 484, 1906, *Liburnia*. [*luoya*.

simplicia Distant, Fauna Brit. Ind., Rhyn., iii, p. 468, fig. 255, 1906, *Punda-*

Localities: N. C., Fla., Texas. (West Indies, Hawaiian Isds., Australia, India.)

Genus **Phyllodinus** Van D.

Haplotype *nervatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 240, 1897.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 583, 1914.

Muir, Can. Ent., xlvii, p. 297, 1915.

2739. **Phyllodinus nervatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894, *Eurysa* (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 241, 1897 (described).

Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 584, 1914.

Localities: Quebec, Ont., N. H., N. Y., Pa., Ohio.

2740. **Phyllodinus nitens** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.

Van Duzee, Psyche, xxi, p. 164, 1914.

Locality: Fla.

2741. *Phyllodinus koebelei* Osb.

Osborn, Ohio Nat., iv, p. 44, 1903; iv, p. 100, 1904.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 585, 1914.
 Localities: D. C., Ohio.

2742. *Phyllodinus fuscous* Osb.

Osborn, Ohio Nat., iv, p. 46, 1903; iv, p. 100, 1904.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 585, 1914.
 Locality: Ohio.

2743. *Phyllodinus fiabellatus* Ball

Ball, Can. Ent., xxxv, p. 232, 1903.
 Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 584, 1914.
 Localities: N. Y., N. J., Pa., D. C.

Genus *Kormus* Fieb.Haplotype *artemisiae* Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 520, 1866.
 Fieber, Cicad. d'Eur., i, p. 87, 1875; ii, pl. 7, 1876; iii, p. 32, 1878.
 Mayr, Tabellen, p. 20, 1884.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 586, 1914.
 Muir, Can. Ent., xlvii, p. 298, 1915.

2744. *Kormus californicus* Crawford.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 586, 1914.
 Locality: Calif.

Genus *Laccocera* Van D.Orthotype *vittipennis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 241, 1897 (misprinted *Laccocera* on
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 579, 1914. [p. 229].
 Muir, Can. Ent., xlvii, p. 297, 1915.

2745. *Laccocera vittipennis* Van D.

Slosson, Ent. News, vi, p. 5, 1895 (*Delphacinus vittipennis* Van D. MS).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 242, 1897 (described).
 Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 580, 1914. [*Delphacinus*.
 [*vittatus* Van D. MS] Gillette and Baker, Hemip. Colo., p. 69, 1895,
 Localities: Quebec, Ont., N. H., N. Y., Ia., Colo., Nev.

2746. *Laccocera zonata* Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (*Delphacinus zonatus* Van D. MS).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 243, 1897 (described).
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 581, 1914.
 a. var. *flava* Crawford.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 581, 1914.
 Localities: Colo., Nev.

2747. *Laccocera bicornata* Crawford.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 582, 1914.
 Locality: Colo.

2748. *Laccocera obesa* Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (*Delphacinus obesus* Van D. MS).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 244, 1897 (described).

Crawford, Proc. U. S. Natl. Mus., xvi, p. 582, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Colo., Nev., Calif.

Genus *Bostaera* Ball

Orthotype *nasuta* Ball

Ball, Can. Ent., xxxiv, p. 266, 1902.

Crawford, Proc. U. S. Natl. Mus., xvi, p. 577, 1914.

Van Duzee, Psyche, xxi, p. 164, 1914.

Muir, Can. Ent., xlvii, p. 296, 1915. [type *apacheanus* Kirk.].

Cochise Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 63, 1907 (*Haplo-*

Crawford, Proc. U. S. Natl. Mus., xvi, p. 576, 1914.

2749. *Bostaera nasuta* Ball

Ball, Can. Ent., xxxiv, p. 266, 1902.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

apacheanus Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 64, 1907, *Cochise*.

Muir, Proc. Haw. Ent. Soc., ii, p. 239, pl. 6, fig. 3, 1913.

Localities: N. C., Fla., Colo., Ariz.

Genus *Stobaera* Stål

Haplotype *concinna* Stål

Stål, Berl. Ent. Zeit., iii, p. 327, 1859.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 244, 1897.

Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.

Crawford, Proc. U. S. Natl. Mus., xvi, p. 571, 1914.

Muir, Can. Ent., xlvii, p. 297, 1915.

Goniolcium Fowler, Biol. Centr. Am., Homop., i, p. 132, 1905.

2750. *Stobaera concinna* (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 246, 1854, *Delphar*.

Stål, Berl. Ent. Zeit., iii, p. 327, 1859.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.

granulosum Fowler, Biol. Centr. Am., Homop., i, p. 132, pl. 13, fig. 7, 1905,

Muir, Proc. Haw. Ent. Soc., ii, p. 242, 1913. [*Goniolcium*.]

Localities: N. J., Fla., Calif. (Mexico.)

2751. *Stobaera tricarinata* (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 237, 1825; Compl. Writ., ii, p. 255,

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Delphar*. [*Delphar*.]

Van Duzee, Psyche, v, p. 389, 1890, *Delphar*.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Delphar*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894, *Conomelus*?

Gillette and Baker, Hemip. Colo., p. 69, 1895, *Conomelus*.

Slosson, Ent. News, vii, p. 265, 1896.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 245, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Van Duzee, Can. Ent., xlv, p. 329, 1912.
Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 572, 1914 (part).
Van Duzee, Psyche, xxi, p. 164, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Metcalf, J. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
 bifasciata Provancher, Pet. Faune Ent. Can., iii, p. 337, 1890, *Delphax*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.
 Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Va., N. C., Ala.,
 Miss., Ohio, Ky., Ill., Ia., Minn., Neb., Kans., Mo., Ark., Texas,
 Colo., Ariz., Calif.
2752. *Stobaera affinis* Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 199, 1909.
 Locality: Fla.
2753. *Stobaera pallida* Osb.
Osborn, Ohio Nat., v, p. 375, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 575, 1914.
 Localities: N. Y., Md., Del., Fla.
2754. *Stobaera minuta* Osb.
Osborn, Ohio Nat., v, p. 376, 1905.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
 Localities: La., Calif.
2755. *Stobaera 4-pustulata* Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.
 foveatus Spooner, Can. Ent., xlv, p. 234, 1912, *Pissonotus*.
 Crawford, Proc. U. S. Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis*.
 Localities: Fla., Texas.
2756. *Stobaera nigripennis* Crawf.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 576, 1914.
 Locality: Calif.
2757. *Stobaera bilobata* Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
 Locality: Calif.
- Genus *Liburniella* Crawf.
 Orthotype *ornata* (Stål)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 585, 1914.
Van Duzee, Psyche, xxi, p. 165, 1914.
2758. *Liburniella ornata* (Stål)
Stål, Berl. Ent. Zeit., vi, p. 315, 1862, *Delphax*.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Liburnia*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894; p. 247, 1897, *Liburnia*.

- Wirtner, Ann. Carn. Mus., iii, p. 216, 1904, *Liburnia*.
 Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Liburnia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 203, 1909, *Liburnia*.
 Van Duzee, Can. Ent., xli, p. 128, 1909, *Liburnia*.
 Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910, *Liburnia*.
 Crawford, Proc. U. S. Natl. Mus., xlvi, p. 586, 1914.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915, *Liburnia*.
 Localities: Ont., N. Y., N. J., Pa., D. C., N. C., S. C., Fla., Miss.,
 Ohio, Ky., Ill., Minn., Ia., Kans. (Bermudas.)

Genus *Liburnia* StålLogotype *pellucida* (Fabr.)

- Stål, Hemip. Afr., iv, pp. 176, 179, 1866 (n.n. for *Delphax* Auct.).
 Scott, Ent. Mo. Mag., vii, pp. 23, 25, 1870.
 Sahlberg, Cicad., p. 422, 1871.
 Fieber, Kat. Eur. Cicad., p. 5, 1872.
 Fieber, Cicad. d'Eur., i, p. 89, 1875; ii, pl. 8, 1876; iv, p. 1, 1879.
 Berg, Hemip. Argent., p. 223, 1879.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 51.
 Meliehar, Cicad. Mitt. Eur., p. 69, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.
 Kirkaldy, Entomol., xxxv, p. 167, 1902.
 Fowler, Biol. Centr. Am., Homop., i, p. 133, 1905. [type].
 Distant, Fauna Brit. Ind., Rhyn., iii, p. 480, 1906 (names *monoceros* pseudo-
 Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 504, 1912 (discussion of type).
 Van Duzee, Psyche, xxi, p. 166, 1914 (names *pellucida* type).
 Bergroth, Can. Ent., xlvii, p. 215, 1915 (cites *pellucida* as type).
 Muir, Can. Ent., xlvii, p. 300, 1915.
 Muir, Proc. Haw. Ent. Soc., iii, p. 333, 1917 (names *vitticollis* type).
 †*Asiracu* Latreille, Hist. Nat. Crust. Ins., xii, p. 316, 1804 (in part).
 †*Delphax* Latreille, Genera Crust. Ins., iii, p. 168, 1807.
 Latreille, Consid. Général, pp. 263, 434, 1810 (names *striata* pseudotype).
 Leach in Brewster's Edinbg. Encey., ix, p. 125, 1815.
 Germar, Mag. d. Ent., iii, p. 205, 1818.
 Fallén, Hemip. Suec., Cicad., p. 73, 1826 (part).
 Zetterstedt, Fauna Lapp., p. 547, 1828.
 Germar, Silb. Revue Ent., i, p. 176, 1833.
 Duponchel, Revue Zool., ii, p. 204, 1839 (names *limbata* pseudotype).
 Spinola, Ann. Soc. Ent. Fr., viii, p. 329, 1839.
 Blanchard, Hist. des Ins., Hémipt., p. 177, 1840.
 Amyot and Serville, Hémipt., p. 512, 1843.
 Stål, Of. Vet. Akad. Forh., xi, p. 189, 1854.
 Flor, Rhyn. Livl., ii, p. 25, 1861.
 Stål, Rio Jan. Hemip., ii, p. 7, 1862.
 Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pp. 520, 524, 1866.
 Mayr, Tabellen, p. 20, 1884.
 Puton, Cat. Hemip. Palae., edn. 3, p. 73, 1886.
 Ashmead, Ent. Am., v, p. 26, 1889.
 Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.
 Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 76, 1906.
 Oshanin, Verz. Palae. Hemip., ii, p. 312, 1907. [genus].
Delphacodes Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 524, 1866 (sub-

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 149, 1907.

Muir, Proc. Haw. Ent. Soc., iii, p. 332, 1917.

†*Embolophora* Kirkaldy, Entomol., xxxiv, pp. 6, 340, 1901. [Fieb. 1866].

Delphacissa Kirkaldy, Can. Ent., xxxviii, p. 155, 1906 (n.n. for *Delphax*

†*Megamelus* Crawford, Proc. U. S. Natl. Mus., xlv, p. 602, 1914 (part).

2759. *Liburnia slossoni* Ball

Ball, Can. Ent., xxxv, p. 231, 1903.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 201, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: Ga., Fla.

2760. *Liburnia weedi* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 252, 1897; ix, p. 202, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: Ga., Fla., Miss.

2761. *Liburnia humilis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 48, 1907; ix, p. 202, 1909.

Localities: Fla. (Jamaica.)

2762. *Liburnia laminalis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 251, 1897; ix, p. 201, 1909.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 624, 1914, *Megamelus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. Y., N. C., Fla., Ohio.

2763. *Liburnia lateralis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 253, 1897 (described).

Localities: Ont., N. H., N. Y.

2764. *Liburnia kilmani* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 253, 1897 (described).

Osborn, Ohio Nat., iv, p. 100, 1904.

Metcalf, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. Y., N. C., Ohio.

2765. *Liburnia culta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 47, 1907.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 628, 1914, *Megamelus*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: Fla. (Jamaica.)

2766. *Liburnia pellucida* (Fabr.)

Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora*.

Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax*.

Germar, Mag. d. Ent., iii, p. 212, 1818, *Delphax*.

Fallén, Hemip. Succ. Cicad., p. 76, 1826, *Delphax*.

Zetterstedt, Fauna Lapp., p. 548, 1828, *Delphax*.

Burmeister, Handb. d. Ent., ii, p. 150, 1835, *Delphax*.

Spinola, Ann. Soc. Ent. Fr., viii, p. 334, 1839, *Delphax*.

Stål, Of. Vet. Akad. Forh., xi, p. 193, 1854, *Delphax*.

- Flor, Rhyn. Livl., ii, p. 65, 1861, *Delphax*.
 Marshall, Ent. Mo. Mag., i, p. 273, 1865, *Delphax*.
 Scott, Ent. Mo. Mag., vii, p. 27, 1870.
 Sahlberg, Cicad., p. 436, 1871.
 Fieber, Cicad. d'Eur., iv, p. 4, 1879.
 Edwards, Trans. Ent. Soc. Lond. for 1886, p. 78.
 Harrington, Ottawa Nat., vi, p. 31, 1892.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.
 Melichar, Cicad. Mitt. Eur., p. 75, pl. 5, fig. 16, 1896.
 Edwards, Hemip. Homop. Brit. Isds., p. 58, pl. 6, fig. 8, 1896.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 247, 1897.
 Kirkaldy, Entomol., xxxiv, p. 338, 1901, *Embolophora*.
 Osborn, Ohio Nat., iv, p. 100, 1904.
 Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
 Slosson, Ent. News, xvii, p. 326, 1906.
 Van Duzee, Can. Ent., xl, p. 114, 1908.
 Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 615, 1914, *Megamelus*.
 Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
marginata Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora*.
 Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax*.
 Germar, Mag. d. Ent., iii, p. 215, 1818, *Delphax*.
flavescens Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora*.
 Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax*.
 Germar, Mag. d. Ent., iii, p. 213, 1818, *Delphax*.
striata Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora*.
 Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax*.
 Germar, Mag. d. Ent., iii, p. 214, 1818, *Delphax*.
dispar, Fallén, Acta Holm for 1806, p. 126, *Delphax*.
 Fallén, Hemip. Suec., Cicad., p. 74, 1826, *Delphax*.
 Zetterstedt, Fauna Lapp., p. 548, 1828, *Delphax*.
 Herrich-Schaeffer, Nomen. Ent., i, p. 106, 1835, *Delphax*.
 Fieber, Cicad. d'Eur., iv, p. 8, 1879.
dubia Kirschbaum, Cicad. v. Wiesbd., p. 26, 1826, *Delphax*.
piccola Kirschbaum, Cicad. v. Wiesbd., p. 30, 1826, *Delphax*.
suturalis Curtis, Brit. Ent., xiv, pl. 657, 1837, *Delphax*.
 a. var. *obscura* Fieb.
 Fieber, Cicad. d'Eur., iv, p. 3, 1879.
pellucida var. *g.* Sahlberg, Cicad., p. 438, 1871.
 b. var. *fascicollis* (Rey)
 Rey, Revue d'Ent., x, p. 244, 1891, *Delphax*.
 c. var. *variicollis* (Rey)
 Rey, Échange, x, p. 14, 1894, *Delphax*.
 Oshanin, Verz. Palae. Hemip., iii, p. 185, 1910, *Delphax*.
 Localities: Quebec, Ont., N. H., N. Y., N. J., N. C., Ohio, Colo.,
 Brit. Col., Alaska. (Palaearectic.)
 [The varieties have not been worked up in this country.]
2767. *Liburnia consimilis* Van D.
 Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 249, 1897.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 616, 1914, *Megamelus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.

?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.

Localities: N. C.(?), Colo., Calif., Nev., Brit. Col.

2768. *Liburnia puella* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 250, 1897 (described).

Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 160, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 202, 1909.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 625, 1914, *Megamelus*.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

Muir, Proc. Haw. Ent. Soc., iii, p. 337, 1917.

Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Fla., Miss., Ohio,
Ky., Ill., Ia. (Hawaiian Isds., Australia).

2769. *Liburnia basivitta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 202, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 626, 1914, *Megamelus*.

Localities: Mass., N. Y., Ga., Fla., Ohio.

2770. *Liburnia pacifica* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 626, 1914, *Megamelus*.

Localities: Ariz., Calif.

2771. *Liburnia osborni* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 250, 1897 (described).

Osborn, Proc. Ia., Acad. Sci., v, p. 235, 1897.

Osborn, Ohio Nat., iv, p. 100, 1904.

?Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: N. Y., N. J., Fla., Ohio, Mich., Ill., Ia., Colo.

2772. *Liburnia arvensis* (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Delphar*.

Van Duzee, Psyche, v, p. 390, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 248, 1897.

Locality: N. Y.

2773. *Liburnia campestris* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 254, 1897 (described).

Swezey, U. S. Dept. Agr., Div. Ent., Bul. 46, p. 43, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 617, 1914, *Megamelus*.

Localities: Quebec, Ont., N. H., Mass., N. Y., Pa., D. C., Miss.,
Ohio, Mich., Kans., Calif.

2774. *Liburnia furcata* (Prov.)Provancher, Nat. Can., iv, p. 320, 1872, *Delphax*.Provancher, Pet. Faune Ent. Can., iii, p. 225, 1889, *Delphax*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894; p. 248, 1897.

?Van Duzee, Can. Ent., xxxviii, p. 408, 1906; xlv, p. 325, 1912.

Localities: Quebec, Ont., N. H., N. Y.

2775. *Liburnia magna* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 627, 1914, *Megamelus*.

Locality: Colo.

2776. *Liburnia detecta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 248, 1897.

Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

circumcincta Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 203, 1909.

Van Duzee, Can. Ent., xli, p. 128, 1909.

Van Duzee, Check List Hemip., p. 84, No. 2777, 1916.

Localities: Mass., N. Y. N. J., Ga., Fla. (Bermudas.)

(2777 see No. 2776.)

2778. *Liburnia tuckeri* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 506, 1912.

Localities: Ga., Fla., Texas, Calif.

2779. *Liburnia foveata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 257, 1897 (described).

Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: N. Y., N. J.

2780. *Liburnia lutulenta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 252, 1897 (described).

Osborn, Ohio Nat., iv, p. 100, 1904.

Swezey, U. S. Dept. Agr., Div. Ent., Bul. 46, p. 45, 1904.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.

Slosson, Ent. News, xvii, p. 326, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 617, 1914, *Megamelus*.

Localities: Quebec, Ont., N. H., Mass., N. Y., Ohio, Minn., Kans., Colo.

2781. *Liburnia obscurella* (Bohm.)Boheman, Kongl. Vet. Akad. Handl. for 1847, p. 53, *Delphax*.Stål, Of. Vet. Akad. Forh., xi, p. 195, 1854, *Delphax*.Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pl. 8, fig. 29, 1866, *Delphax*.

Scott, Ent. Mo. Mag., vii, p. 28, 1870.

Sahlberg, Cicad., p. 443, 1871.

Fieber, Cicad. d'Eur., iv, p. 20, 1879.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 80.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.

Melichar, Cicad. Mitt. Eur., p. 82, pl. 5, figs. 22, 23, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 60, 1896.

Localities: N. Y. (Europe.)

2782. *Liburnia magnistyla* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 627, 1914, *Megamelus*.

Locality: Ariz.

2783. *Liburnia hemiptera* (Germ.)

Germar, Mag. d. Ent., iii, p. 217, 1818, *Delphax*.

Stål, Of. Vet. Akad. Forh., xi, p. 193, 1854, *Delphax*.

Stål, Stet. Ent. Zeit., xix, p. 192, 1858, *Delphax*.

Ashmead, Harriman Alaska Exped., viii, p. 131, 1904, *Delphax*.

Localities: Alaska. (Europe.)

(This species is not recognized by Oshanin.)

2784. *Liburnia steinegeri* (Ashm.)

Ashmead, Fur Seals and Fur Seal Isds., iv, p. 340, 1899, *Delphax*.

Ashmead, Harriman Alaska Exped., viii, p. 130, 1904, *Delphax*.

Locality: Alaska.

2785. *Liburnia incerta* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 258, 1897.

Localities: N. Y., Ohio.

2786. *Liburnia magnifrons* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 614, 1914, *Megamelus*.

Van Duzee, Univ. Calif. Publ. Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Colo., Calif.

2787. *Liburnia vanduzeei* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 622, 1914, *Megamelus*.

Locality: Mass.

2788. *Liburnia kormusi* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 614, 1914, *Megamelus*.

Locality: Nev.

2789. *Liburnia occlusa* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 256, 1897.

Osborn, Ohio Nat., iv, p. 100, 1904.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 619, 1914, *Megamelus*.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.

Localities: Ohio, Calif.

2790. *Liburnia lineatipes* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 255, 1897 (described).

Osborn, Ohio Nat., iv, p. 100, 1904.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.

Localities: Ont., N. Y., Ohio, Calif.

2791. *Liburnia indistincta* (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlv, p. 619, 1914, *Megamelus*.

Locality: Colo.

2792. *Liburnia nigridorsum* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 620, 1914, *Megamelus*.

Weiss, Ent. News, xxvii, p. 215, 1917.

Localities: N. J., Colo.

2793. *Liburnia dolera* Spnr.

Spooners, Can. Ent., xlv, p. 240, 1912.

Locality: N. Y.

2794. *Liburnia nigrigaster* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 621, 1914, *Megamelus*.

Locality: Colo.

2795. *Liburnia gillettei* Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 258, 1897 (described).

Osborn, Ohio Nat. iv, p. 100, 1904.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 616, 1914, *Megamelus*.

Localities: Ohio, Colo., Wyo., Nev.

2796. *Liburnia albolineosa* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 135, pl. 13, fig. 14, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 47, 1907; ix, p. 203, 1909.

Van Duzee, Can. Ent., xli, p. 128, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 610, 1914, *Megamelus*.

Localities: Fla. (Bermudas, West Indies, Mexico.)

2797. *Liburnia teapae* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 135, pl. 13, fig. 13, 1905.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 46, 1907.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 618, 1914, *Megamelus*.

Localities: Fla. (West Indies, Mexico.)

2798. *Liburnia seminigra* (Stål)Stål, Of. Vet. Akad. Forh., xi, p. 246, 1854, *Delphax*.Stål, Freg. Eugen. Resa, Ins., p. 275, 1859, *Delphax*.Stål, Rio Jan. Hemip., ii, p. 7, 1862, *Delphax*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 45, 1907; ix, p. 203, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Localities: Fla., Colo. (Neotropical.)

2799. *Liburnia analis* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 620, 1914, *Megamelus*.

Locality: Wis.

2800. *Liburnia andromeda* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 46, 1907; ix, p. 203, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 628, 1914, *Megamelus*.

Localities: Pa., Fla. (Neotropical.)

2801. *Liburnia rotundata* (Crawf.)Crawford, Proc. U. S. Natl. Mus., xlv, p. 618, 1914, *Megamelus*.

Locality: Ala.

2802. *Liburnia unicolor* (Walk.)Walker, List Homop., ii, p. 354, 1851, *Delphax* (not of H. Sch.).

Locality: Canada.

[*Liburnia pumila* Van D. MS]

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.

Locality: Fla.

[Probably an early MS name for *puella* Van D.]Genus *Dicranotropis* Fieb.Logotype *hamata* (Boh.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866.

Sahlberg, Cicad., p. 469, 1871.

Fieber, Cicad. d'Eur., i, p. 9, 1875; pl. 8, 1876; iv, p. 82, 1879.

Mayr, Tabellen, p. 21, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 92.

Ashmead, Ent. Am., v, p. 27, 1889.

Melichar, Cicad. Mitt. Eur., pp. 51, 96, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 72, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 240, 1897.

Oshanin, Kat. Palae. Hemip., p. 120, 1912 (names *hamata* type).Crawford, Proc. U. S. Natl. Mus., xvi, p. 593, 1914 (part; names *beckeri*

Muir, Can. Ent., xlvii, p. 300, 1915. [pseudotype).

2803. *Dicranotropis luteivitta* (Walk.)Walker, List Homop., ii, p. 354, 1851, *Delphax*.

Locality: "U. S."

Genus *Achorotile* Fieb.Haplotype *albosignata* Dahlb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866.

Scott, Ent. Mo. Mag., vii, p. 195, 1870.

Sahlberg, Cicad., p. 472, 1871 (as subgenus of *Ditropis*).

Fieber, Cicad. d'Eur., i, p. 92, 1875; ii, pl. 8, 1876; iv, p. 88, 1879.

Ashmead, Ent. Am., v, p. 27, 1889.

Melichar, Cicad. Mitt. Eur., pp. 51, 99, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 230, 259, 1897.

Crawford, Proc. U. S. Natl. Mus., xvi, p. 578, 1914.

Muir, Can. Ent., xlvii, p. 297, 1915.

(2804 see No. 2717.)

2805. *Achorotile foveata* Spnr.

Spooner, Can. Ent., xlv, p. 241, 1912.

Locality: Calif.

Genus *Criomorphus* Curt.Haplotype *albomarginatus* Curt.

Curtis, Ent. Mag., i, p. 195, 1833.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 131, 1907.

[Fieb.).

Stiroma Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866 (type *affinis*

Fieber, Cicad. d'Eur., i, p. 93, 1875; ii, pl. 8, 1876; iv, p. 90, 1879.

Mayr, Tabellen, p. 21, 1884.

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 93.

Melichar, Cicad. Mitt. Eur., pp. 51, 100, 1896.

Edwards, Hemip. Homop. Brit., Isds., p. 73, 1896.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 583, 1914.
 Muir, Can. Ent., xlvii, p. 298, 1915.
Ditropis Fieber, Verh. Zool.-Bot. Ges. Wien, pl. 8, fig. 18, 1866.
 Kirschbaum, Cicad. v. Wiesbd., p. 41, 1868.
 [Muir considers *Eurybregma* distinct.]

2806. *Criomorphus inconspicuus* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877, *Stiroma*.
 Gillette and Baker, Hemip. Colo., p. 70, 1895, *Stiroma*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897, *Stiroma*.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 583, 1914, *Jassideus*.
 Localities: N. Y.(?), Colo.

Genus *Pentagramma* Van D.

Orthotype *vittatifrons* Uhl.

- Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 565, 1914.

2807. *Pentagramma vittatifrons* (Uhl.)

- Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 351, 1876; iv, p. 510, 1878, *Liburnia*.
 Uhler, Stand. Nat. Hist., ii, p. 241, 1884, *Liburnia*.
 Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1896, *Liburnia*.
 Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
 Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
 Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
 Crawford, Proc. U. S. Natl. Mus., xlv, p. 567, 1914.
 Localities: Mass., N. Y., N. J., Md., Ill., Ia., Dak., Mont.

2808. *Pentagramma minore* Crawf.

- Crawford, Proc. U. S. Natl. Mus., xlv, p. 567, 1914.
 Locality: Wyo.

SECTION *HYMENELYTRATA* Fall.

- Fallén, Spec. Nova Hemip., Disp. Meth. Exhib., p. , 1814.
 Latreille, Fam. Nat. Règne Animal, p. 428, *Hemelytra*.
 Fallén, Hemip. Succ., Cimic., preface, 1829.

SERIES *STERNORHYNCHA* (A. & S.)

- Amyot and Serville, Hémip., pp. lxvi, 588, 1843, *Sternorhynchi*. (Section.)
 Fieber, Genera Hydrocoridum, p. 10, 1851.
 Flor, Rhyn. Livl., ii, pp. 5, 436, 1861.
 Provancher, Pet. Faune Ent. Can., iii, p. 302, 1890, *Sternorhynques*.
 Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907. (Section.)
 Oshanin, Kat. Palae. Hemip., p. 125, 1912.
 Van Duzee, Check List Hemip., p. 85, 1896. (Section.)
Phytothelga Dumeril, Zool. Analyt., p. , 1906.
Dimera Westwood, Intr. Mod. Classif. Ins., ii, p. 434, 1840.
 Kirkaldy, Fauna Hawai., iii, p. 113, 1902. (Tribe.)

SUBSERIES *PHYTOPHTHIRES* Burm.

- Burmeister, Handb. d. Ent., ii, pp. 55, 84, 1835.
 Walker, List Homop., iv, p. 909, 1852.
 Flor, Rhyn. Livl., ii, pp. 5, 436, 1861.
 Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907.
Aphidiens Latreille in Cuvier, Règne Animal, edn. 2, v, p. 224, 1829.

Family CHERMIDAE (Fall.)

- Fallén, Spec. Nova Hemip. Disp. Meth. Exhib., p. , 1814, *Chermides*.
 Billberg, Enum. Ins. Coll. Billbg., p. , 1820, *Chermides*.
 Kirkaldy, Entomol., xxxvii, p. 255, 1904.
 Kirkaldy, Fauna Hawai., ii, p. 598, 1910.
 Van Duzee, Check List Hemip., p. 85, 1916.
Psyllidae Latreille, Genera Crust. Ins., iii, p. 168, 1807.
 Latreille, Consid. Gén., pp. 264, 434, 1810.
 Latreille, Fam. Nat. Règne Animal, p. 428, 1825, *Psyllides*.
 Burmeister, Handb. d. Ent., ii, p. 95, 1835, *Psyllodes*.
 Blanchard, Hist. des Ins., Hémip., p. 201, 1840, *Psylliens*.
 Westwood, Intr. Mod. Classif. Ins., ii, p. 435; Synop., p. 117, 1840.
 Hartig, Germar's Zeit. f. Ent., iii, p. 370, 1841, *Psyllodes*.
 Amyot and Serville, Hémip., pp. lxvi, 590, 1843, *Psyllides*.
 Walker, List Homop., iv, p. 909, 1852.
 Dohrn, Cat. Hemip., p. 94, 1859.
 Flor, Rhyn. Livl., ii, p. 438, 1861, *Psyllodca*.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 526 (monograph British
 Thomas, 8th Rept. Ill. St. Ent., p. 12, 1879. [species).
 Uhler, Stand. Nat. Hist., ii, p. 223, 1884.
 Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Psyllides*.
 Provancher, Pet. Faune Ent. Can., iii, p. 302, 1890.
 Kirkaldy, Faune Hawai., iii, p. 113, 1902.
 Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907.
 Patch, Ann. Ent. Soc. Am., ii, p. 117, 1909 (venation).
 Crawford, Pomona Jl. Ent., ii, p. 228, 1910; iii, p. 480, 1911.
 Oshanin, Kat. Palae. Hemip., p. 125, 1912.
 Aulmann, Psyllidarum Catalogus, Berlin, 1913 (catalogue world species).
 Crawford, U. S. Natl. Mus., Bul. 85, 1914 (monograph Am. species).

Subfamily LIVIINAE Löw

- Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 606, 1878.
 Scott, Trans. Ent. Soc. Lond. for 1882, p. 462, *Livillinae*.
 Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Liviaria*.
 Edwards, Hemip. Homop. Brit. Isds., p. 227, 1896, *Liviidae*.
 Oshanin, Kat. Palae. Hemip., p. 125, 1912, *Liviaria*. (Tribe.)
 Aulmann, Psyllid. Cat., p. 75, 1913.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.

TRIBE LIVIINI Crawf.

- Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.

Genus *Livia* Latr.Haplotype *juncorum* (Linn.)

- Latreille, Hist. Nat. Crust. Ins., iii, p. 266, 1802 (*juncorum* only species).
 Latreille, Hist. Nat. Crust. Ins., xii, p. 374, 1804.
 Latreille, Genera Crust. Ins., iii, p. 170, 1807.
 Latreille, Consid. Gén., pp. 265, 434, 1810 (names *juncorum* type).
 Latreille, in Cuvier, Règne Animal, iii, p. 410, 1817 (no species mentioned).
 Latreille, in Cuvier, Règne Animal, edn. 2, v. 225, 1829.

- Leach, in Brewster's Edinbg. Encey., Am. edn., viii, p. 714, 1832.
 Curtis, Brit. Ent., vi, pl. 492, 1834.
 Burmeister, Handb. d. Ent., ii, p. 96, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 202, 1840.
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
 Hartig, in Germar's Zeit. f. Ent., iii, p. 375, 1841.
 Amyot and Serville, Hémip., p. 596, 1843.
 Walker, List Homop., iv, p. 909, 1852.
 Flor, Rhyn. Livl., ii, p. 540, 1861.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 565.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 606, 1878.
 Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.
 Edwards, Hémip. Homop. Brit. Isds., p. 227, 1896.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.
Diraphia Illiger, Mag. d. Insektk., i, p. 284, 1802 (nomen nudum?).
 Waga, Ann. Soc. Ent. Fr., xi, p. 275, 1842 (characterized). Haplotype
 Amyot and Serville, Hémip., p. 596, 1843. [*limbata* Waga.
 Walker, List Homop., iv, p. 911, 1852.
 Thomas, 8th Rept. Ill. St. Ent., p. 13, 1879.
2809. *Livia coloradensis* Crawford.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 20, 1914 (figures).
 Host: (?)
 Localities: Ark., Colo.
2810. *Livia maculipennis* (Fh.)
 Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858), *Diraphia*.
 Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia*.
 Riley, Proc. Biol. Soc. Wash., ii, p. 68, 1884.
 Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.
 Patch, Psyche, xix, p. 6, 1912.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 21, 1914 (figures).
 Patch, Psyche, xxiii, p. 21, 1916 (gall on Juncus).
bifasciata Provancher, Pet. Faune Ent. Can., iii, p. 308, 1890.
 Hosts: Juncus, Pinus, Caltha.
 Localities: Quebec, N. H., Mass., N. Y., N. J., Pa., D. C., Ala.
2811. *Livia marginata* Patch
 Patch, Psyche, xix, p. 8, 1912.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 21, 1914.
 Host: (?)
 Localities: N. H., Conn.
2812. *Livia vernalis* Fh.
 Fitch, Homop. N. Y. St. Cab., p. 64, 1851.
 Walker, List. Homop., iv, p. 910, 1852.
 Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857 (1858), *Diraphia*.
 Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia*.
 Riley, Proc. Biol. Soc. Wash., ii, p. 68, 1884.
 Packard, 5th Rept. U. S. Ent. Comm., p. 803, 1890, *Diraphia*.
 Gillette and Baker, Hémip. Colo., p. 115, 1895.
 Snow, Kans. Univ. Sci. Bul., ii, p. 350, 1904 (mention).

Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.

Patch, Psyche, xix, p. 7, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 22, 1914 (figures).

Weiss, Ent. News, xxvii, p. 163, 1916.

femoralis Fitch, Homop. N. Y. St. Cab., p. 64, 1851.

Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858), *Diraphia*.

Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia*.

calamorum Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858),

Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia*. [*Diraphid.*]

saltatrix Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.

Hosts: Pinus, Calamus.

Localities: Quebec, Conn., N. Y., N. J., Pa., D. C., Va., Mich., La., Colo., Ariz.

2812½. *Livia viridescens* (Prov.)

Provancher, Nat. Can., iv, p. 379, 1872, *Diraphia*.

Host: (?)

Locality: Quebec.

2813. *Livia caricis* Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 23, 1914 (figures).

Host: Carex.

Localities: Me., Pa., Ill., Colo., N. Mex., Utah, Calif., Ore., Brit. Col.

TRIBE APHALARINI (Löw)

Löw, Verh. Zool.-Bot. Ges. Wien, xviii, p. 605, 1878, *Aphalarinae*.

Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Aphalararia*.

Edwards, Hemip. Homop. Brit. Isds., p. 22, 1896, *Aphalaridae*.

Kuwayama, Trans. Sapporo Nat. Hist. Soc., ii, p. 15, 1907.

Oshanin, Kat. Palae. Hemip., p. 126, 1912, *Aphalararia*.

Aulmann, Psyllid. Cat., p. 61, 1913, *Aphalarinae*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 24, 1914.

Genus *Aphalara* Först.

Logotype *calthae* (Linn.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67, 1848.

Walker, List Homop., iv, p. 929, 1852 (listed).

Flor, Rhyn. Livl., ii, p. 530, 1861.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 559.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 607, 1878; xxxii, p. 3, 1882.

Edwards, Hemip. Homop. Brit. Isds., p. 229, 1896.

Crawford, Pomona Jl. Ent., iii, p. 492, 1911. (Key.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 24, 1914. (Key.)

Subgenus *Aphalara* Först.

Crawford, U. S. Natl. Mus., Bul. 85, p. 25, 1914 (implied).

2814. *Aphalara exilis* (W. & M.)

Weber and Mohr, Naturh. Reise d. eine Theil Schwedens, p. 65, pl. 1, fig. 2, Fallén, Hemip. Suec., Cicad., p. 80, 1826, *Chermes*. [1804, *Tettigonia*.]

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 89, 1848.

Flor, Rhyn. Livl., ii, p. 532, 1861.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 560, pl. 9, fig. 10.

Thomson, Opusc. Ent., viii, p. 840, 1877.

Douglas, Ent. Mo. Mag., xv, p. 255, 1879 (mention).

Strand, Ent. Tidskr., xxiii, p. 270, 1902.

rumicis, Boheman, Vet. Akad. Handl. for 1850, p. 177, *Psylla*.

Reuter, Medd. Fauna Flora Fenn., i, p. 72, 1876, *Psylla*.

Hosts: *Rumex*, *Pinus*.

Localities: "E. St." (Europe.)

2815. *Aphalara calthae* (Linn.)

Linnaeus, Fauna Suec., edn. 2, p. 263, no. 1005, 1761, *Chermes*.

Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1867, *Chermes*.

Fabricius, Syst. Ent., p. 741, 1775, *Chermes*.

Goeze, Ent. Beytr., ii, p. 321, 1778, *Chermes*.

Gmelin, in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.

Fabricius, Ent. Syst., iv, p. 222, 1794, *Chermes*.

Fabricius, Syst. Rhyn., p. 304, 1803, *Chermes*.

Blanchard, Hist. des Ins., Hémipt., p. 210, 1840, *Chermes*.

Walker, List Homop., iv, p. 921, 1852, *Psylla*?

Thomson, Opusc. Ent., viii, p. 840, 1877.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 233, 1882; xxxvi, p. 149, 1886.

Edwards, Hemip. Homop. Brit. Isds., p. 232, 1896.

Crawford, Pomona Jl. Ent., iii, p. 495, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 27, 1914 (figures).

polygona Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 90, 1848.

Flor, Rhyn. Livl., ii, p. 534, 1861.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 561.

Douglas, Ent. Mo. Mag., xv, p. 255, 1879 (mention).

Mally, Proc. Ia. Acad. Sci., ii, pl. 15, figs. 1-3, 1895 (larvae).

Patch, Me. Agr. Exp. Sta., Bul. 195, p. 235, 1911; Bul. 202, p. 216, 1912.

ulicis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

Hosts: *Caltha*, *Rumex*, *Polygonum*, *Ulex*, *Pinus*.

Localities: Me., Mass., D. C., Ill., Ia., La., Wyo., Colo., Utah, N.

Mex., Calif., Ore., Wash. (Cuba, Mexico, Europe.)

2815½. *Aphalara nubifera* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 216, 1912.

Host: *Sisymbrium*.

Locality: Colo.

2816. *Aphalara rumicis* Mally

Mally, Proc. Ia. Acad. Sci., ii, p. 166, 1895 (as var. of *crilis*).

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 29, 1914 (figures).

†*maculipennis* Crawford, Pomona Jl. Ent., iii, p. 496, 1911.

[Probably identical with *maculipennis* Löw as suggested by Crawford; if not Mally's name is preoccupied by *rumicis* Boheman and must be changed.]

Hosts: *Rumex*, *Sophia*.

Localities: Ia., Mo., Wyo., Colo., Texas, Calif., Ore.

2817. *Aphalara artemisiae* Först.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.

Flor, Rhyn. Livl., ii, p. 537, 1861.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

Scott, Ent. Mo. Mag., xiii, p. 67, 1876; p. 282, 1877.

Thomson, Opusc. Ent., viii, p. 841, 1877.

Edwards, Ent. Mo. Mag., xlv, p. 86, 1908.

Crawford, Pomona Jl. Ent., ii, p. 496, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 29, 1914.

malachitica Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 177, *Psylla*.

Host: *Artemisia*.

Localities: Colo., Utah. (Europe.)

2818. *Aphalara angustipennis* Crawf.

Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (as var. of *artemisiae*).

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 218, 1912 (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 30, 1914 (figures).

Host: *Artemisia*.

Localities: Md., S. D., Colo., Utah, Calif., Ore., Wash.

2819. *Aphalara viridis* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 30, 1914.

Host: (?)

Locality: Ariz.

2820. *Aphalara pinicola* Crawf.

Crawford, U. S. National Mus., Bul. 85, p. 31, 1914.

Host: *Pinus*.

Locality: Calif.

2821. *Aphalara suaedae* Crawf.

Cockerell, Am. Nat., xxxiv, p. 290, 1900 (*A. suedae* Schw. MS).

Crawford, U. S. Natl. Mus., Bul. 85, p. 31, fig. 110, 1914 (described).

Host: *Suaeda*.

Localities: N. Mex., Calif.

2822. *Aphalara veaziei* Patch

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 16, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 31, 1914 (figures).

communis Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (figures).

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 218, 1912.

a. var. *metzaria* Crawf.

Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (as var. of *communis*).

Host: *Aster*.

Localities: Ont., Md., D. C., Va., W. Va., Wis., S. D., Neb., Wyo.,
Colo., Utah, Texas, Ariz., Calif., Wash.

2823. *Aphalara caudata* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914.

Host: (?)

Locality: Calif.

2824. *Aphalara pulchella* Crawford.

Crawford, Pomona Jl. Ent., iii, p. 500, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914 (figures).

Host: (?)

Locality: Calif.

2825. *Aphalara picta* (Zett.)Zetterstedt, Fauna Lapp., p. 553, 1828, *Chermes*.Zetterstedt, Ins. Lapp., column 308, 1840, *Chermes*.

Flor, Rhyn. Livl., ii, p. 539, 1861.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 563, pl. 9, fig. 9.

Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, pl. 2, figs. 36-40, 1876; xxix, p. 562,

Reuter, Ent. Tidskr., ii, p. 15, 1881 (in Swedish). [pl. 15, figs. 14, 15, 1879.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 256, 1882; xxxvi, p. 150, 1886.

Edwards, Hemip. Homop. Brit. Isds., p. 230, 1896.

Crawford, Pomona Jl. Ent., iii, p. 501, 1911.

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912 (note).

Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914 (figures).

flavipennis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 89, 1848.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

Löw, Verh. Zool.-Bot. Ges. Wien, xxiii, p. 141, 1873.

sonchi Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.

alpigena Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.†*nervosa* Thomson, Opusc. Ent., viii, p. 840, 1877.

Hosts: Chrysanthemum, Leontodon, Hypochaeris.

Localities: Mo., Colo. (Europe.)

2826. *Aphalara fascipennis* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 34, 1914.

Host: (?)

Localities: Ont., N. H., Mass., N. Y.

2827. *Aphalara alaskensis* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 136, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 35, 1914 (figures).

Host: (?)

Localities: Colo., Wash., Alaska.

2828. *Aphalara schwarzi* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 135, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914 (noticed).

Aphalara sp. Schwarz, Proc. Wash. Acad. Sci., ii, p. 539, 1900.

Host: (?)

Locality: Alaska.

2829. *Aphalara nebulosa* (Zett.)Zetterstedt, Fauna Lapp., p. 551, 1828, *Chermes*.Zetterstedt, Ins. Lapp., column 307, 1840, *Chermes*.

Reuter, Medd. Soc. Fauna Flora Fenn., i, pp. 73, 77, 1876.

Löw, Verh. Zool.-Bot. Ges. Wien, xxix, p. 566, 1879.

Reuter, Ent. Tidskr., ii, p. 152, 1881 (in Swedish).

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 283, 1882.

Scott, Ent. Mo. Mag., xviii, p. 275, 1882; xix, pp. 14, 42, 1882.

Edwards, Hemip. Homop. Brit. Isds., p. 231, pl. 26, fig. 3, 1896.

a. var. *kincaidi* Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 136, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914 (figures).

americana Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (as variety).

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 219, 1912 (noticed).

Host: *Epilobium*.

Localities: Colo., Calif., Wash., Alaska.

[The typical form European, not yet found here.]

Subgenus *Anomocera* Crawf.

Orthotype *minutissima* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914.

2830. *Aphalara minutissima* Crawf.

Crawford, Pomona Jl. Ent., iii, p. 500, 1911 (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 37, 1914 (figures).

Host: *Artemisia*.

Localities: Neb., Utah, Nev., Calif.

2831. *Aphalara anomala* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 37, 1914.

Host: (?)

Locality: Calif.

Genus *Aphalaroida* Crawf.

Orthotype *pithecolobia* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 38, 1914.

2832. *Aphalaroida pithecolobia* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 39, 1914 (figures).

Host: *Pithecolobium*.

Locality: Texas.

2833. *Aphalaroida spinifera* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 40, fig. 399, 1914.

Hosts: *Prosopis*, *Phorodendron*.

Localities: Ariz., Calif.

2834. *Aphalaroida prosopis* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 40, fig. 404, 1914.

Host: *Prosopis*.

Locality: Ariz.

2835. *Aphalaroida inermis* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 41, fig. 398, 1914.

Hosts: *Prosopis*, *Mimosa*.

Localities: Texas, Ariz., Calif.

2836. *Aphalaroida acaciae* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 41, fig. 397, 1914.

Hosts: *Acacia*, *Phorodendron*.

Localities: Texas, Calif.

Subfamily **PAUROPSYLLINAE** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 42, 1914.

Genus **Paurocephala** Crawf.Orthotype *psylloptera* Crawf.

Crawford, Phil. Jl. Sci., viii, sec. D, p. 293, 1913.

Crawford, U. S. Natl. Mus., Bul. 85, p. 42, 1914.

2837. **Paurocephala ilecis** (Ashm.)Ashmead, Can. Ent., xiii, p. 225, 1883, *Psylla*.Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884, *Aphalara (ilicis)*.Crawford, Pomona Jl. Ent., iii, p. 632, 1911, *Psyllopa (ilicis)*.Crawford, U. S. Natl. Mus., Bul. 85, p. 43 (figures), 1914 (*ilicis*).Host: *Ilex*.

Localities: Ga., Fla.

Genus **Heteropsylla** Crawf.Orthotype *texana* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 44, 1914.

2838. **Heteropsylla texana** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 45, 1914 (figures).

Hosts: *Pithecolobium*, *Sphaeralecea*, *Monarda*, *Chrysopsis*, *Acacia*,
Tamarix, *Celtis*, *Prosopis*.

Localities: Kans., Colo., Texas, Ariz.

2839. **Heteropsylla mimosae** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 48, 1914.

Host: *Mimosa*.

Locality: Texas.

Genus **Calophya** LöwHaplotype *rhois* Löw

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 598, 608, 1878.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 240, 1904.

Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 162, 1905.

Crawford, U. S. Natl. Mus., Bul. 85, p. 49, 1914.

2840. **Calophya californica** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 242, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 50, 1914 (figures).

Host: *Rhus integrifolia*.

Locality: Calif.

2841. **Calophya flavida** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 243, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 50, fig. 419, 1914.

Host: *Rhus glabra*.

Localities: Mass., D. C., Mo.

2842. **Calophya dubia** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 51, fig. 420, 1914.

Host: (?)

Locality: Colo.

2843. *Calophya triozeina* Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 241, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 52, 1914 (figures).

a. var. *claripennis* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 52, 1914.

Host: *Rhus trilobata*.

Localities: Colo., Ariz., Calif.

2844. *Calophya nigripennis* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884 (n.n. for *rhois* Glover).

Schwarz, Proc. Ent. Soc. Wash., vi, p. 244, 1904 (described).

Crawford, U. S. Natl. Mus., Bul. 85, p. 53, 1914 (figures).

†*rhois* Glover, U. S. Dept. Agr., Rept. for 1876, p. 33, 1877, *Psylla*.Host: *Rhus copallina*.

Localities: Pa., D. C., Va., N. C., Ga.

[*Calophya vitreipennis* Riley MS]

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (name only).

Locality: Ariz.

Subfamily CHERMINAE Van D.

Van Duzee, Check List Hemip., p. 86, 1916 (n.n. for *Carsidarinae* Crawf.).*Prionocnemidae* Scott, Trans. Ent. Soc. Lond. for 1882, p. 466.Scott, Proc. Linn. Soc. N. S. Wales, xxvi, p. 286, 1901, *Prionocneminae*.Kieffer, Zeit. f. Wissen. Ins. Biol., ii, p. 387, 1906, *Prionocneminae*.*Phacosemini* Kieffer, Zeit. f. Wissen. Ins. Biol., ii, p. 387, 1906.*Carsidarinae* Crawford, Pomona Jl. Ent., iii, p. 481, 1911 (n.n. for *Prionoc-*Crawford, U. S. Natl. Mus., Bul. 85, pp. 18, 53, 1914. [*nemidae* Scott].*Ciriacreminae* Aulmann, Psyllid. Cat., p. 79, 1913 (part).Genus *Rhinopsylla* RileyHaplotype *schwarzii* Riley

Riley, Proc. Biol. Soc. Wash., ii, p. 77, 1884.

Crawford, Pomona Jl. Ent., iii, pp. 440, 483, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 59, 1914.

2845. *Rhinopsylla schwarzii* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 77, 1884.

Crawford, Pomona Jl. Ent., iii, p. 441, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 59, 1914.

Host: (?)

Locality: Fla

2846. *Rhinopsylla athenae* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 60, 1914 (figures).

Host: (?)

Locality: Ga.

2847. *Rhinopsylla antennata* Crawf.

Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, pp. 441, 491, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 61, 1914 (figures).

a. var. **proxima** Cawf.

Crawford, Pomona Jl. Ent., iii, p. 491, 1911 (name only).

Crawford, U. S. Natl. Mus., Bul. 85, p. 62, 1914.

Host: (?)

Locality: Colo.

Subfamily **TRIOZINAE** (Put.)Puton, Cat. Hémip. Palae., edn. 2, p. 91, 1875, *Triozaria*.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 609, 1879.

Puton, Cat. Hémip. Palae., edn. 3, p. 93, 1886, *Triozaria*.Edwards, Hemip. Homop. Brit. Isds., p. 250, 1896, *Triozidae*.

Kuwayama, Trans. Sapporo Nat. Hist. Soc., iii, p. 53, 1908.

Crawford, Pomona Jl. Ent., ii, pp. 228, 347, 1910; iii, p. 422, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 64, 1914.

Genus **Kuwayama** Cawf.Orthotype *medicaginis* Cawf.Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *Epitrioza* Cawf.).

Crawford, U. S. Natl. Mus., Bul. 85, p. 65, 1914.

||*Epitrioza* Crawford, Pomona Jl. Ent., iii, p. 452, 1911.2848. **Kuwayama medicaginis** (Cawf.)Crawford, Pomona Jl. Ent., ii, p. 229, 1910, *Paratrioza*.Crawford, Pomona Jl. Ent., iii, p. 452, 1911, *Epitrioza*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 66, 1914 (figures).

Host: Medicago.

Localities: N. Mex. (not Colo.), Calif.

2849. **Kuwayama dorsalis** Cawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 67, fig. 415, 1914.

Host: (?)

Locality: Ariz.

Genus **Leuronota** Cawf.Orthotype *maculata* (Cawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 67, 1914.

2850. **Leuronota maculata** (Cawf.)Crawford, Pomona Jl. Ent., ii, p. 349, 1910, *Triozza*.Crawford, Pomona Jl. Ent., iii, p. 446, 1911, *Allotrioza* (mention).

Crawford, U. S. Natl. Mus., Bul. 85, p. 68, 1914 (figures).

Hosts: Condalia, Colubrina.

Localities: Texas, Ariz.

2851. **Leuronota longipennis** Cawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 69, 1914 (figures).

Host: (?)

Locality: Fla.

Genus **Paratrioza** Cawf.Logotype *ocellata* Cawf. = *cockerelli* (Sul.)

Crawford, Pomona Jl. Ent., ii, pp. 228, 229, 1910.

Crawford, Pomona Jl. Ent., iii, p. 446, 1911 (names *ocellata* type).Crawford, U. S. Natl. Mus., Bul. 85, p. 70, 1914. [*arbolensis* Cawf.).*Allotrioza* Crawford, Pomona Jl. Ent., iii, pp. 423, 442, 1911 (orthotype

2852. *Paratrioza cockerelli* (Sulc.)

Sulc, Acta Soc. Ent. Bohemiae, vi, p. 102, 1909, *Triozia*.

Crawford, Pomona Jl. Ent., iii, p. 448, 1911.

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 71, 1914 (figures).

pulchella Crawford, Pomona Jl. Ent., ii, p. 229, 1910.

ocellata Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, pp. 447, 628, 1911.

nigra Crawford, Pomona Jl. Ent., iii, p. 448, 1911.

flava Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 448, 1911.

Hosts: Capsicum, Solanum, Purshia, Thuja, Picea, Pinus, Medicago.

Localities: Colo., Utah, N. Mex., Ariz., Calif.

2853. *Paratrioza arbolensis* Crawl.

Crawford, Pomona Jl. Ent., ii, p. 229, 1910.

Crawford, Pomona Jl. Ent., iii, p. 444, 1911, *Allotrioza*.

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912, *Allotrioza* (mention).

Crawford, U. S. Natl. Mus., Bul. 85, p. 72, 1914 (figures).

Host: Shepherdia.

Locality: Colo.

2854. *Paratrioza maculipennis* (Crawf.)

Crawford, Pomona Jl. Ent., ii, pp. 230, 237, 1910, *Triozia*.

Crawford, Pomona Jl. Ent., iii, p. 450, fig. 153, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 73, fig. 392, 1914.

Hosts: Ceanothus, Convolvulus.

Locality: Calif.

Genus *Triozia* Först.Logotype *urticae* (Linn.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67, 1848.

Flor, Rhyn. Livl., ii, p. 484, 1861.

Frauenfeld, Verh. Zool.-Bot. Ges. Wien, xvii, p. 804, 1867 (venation figured).

Scott, Trans. Ent. Soc. Lond. for 1876, p. 551.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 609, 1879.

Edwards, Hemip. Homop. Brit. Isds., p. 253, 1896. [Am. species.]

Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 423, 1911. (Keys to

Oshanin, Kat. Palae. Hemip., p. 128, 1912 (names *urticae* type).

Crawford, U. S. Natl. Mus., Bul. 85, p. 74, 1914. (Key.) [nudum].

Phyllopecta Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen

2855. *Triozia bakeri* Crawl.

Crawford, Pomona Jl. Ent., ii, pp. 230, 235, figs. 98, 99, 1910; iii, p. 424, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 77, 1914.

montana Crawford, Pomona Jl. Ent., iii, p. 631, 1911.

Host: Pinus.

Locality: Calif.

2856. *Triozia brevantennata* Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 78, 1914 (figures).

Host: (?)

Locality: Calif.

2857. *Triozia diospyri* (Ashm.)

Ashmead, Can. Ent., xiii, p. 222, fig. 12, 1881, *Psylla*.

Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).

- Forbes, 14th Rept. Ill. St. Ent., p. 99, 1885.
 Crawford, Pomona Jl. Ent., ii, p. 352, 1910 (figures).
 Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.
 Crawford, Pomona Jl. Ent., iii, p. 424, 1911.
 Patch, Me. Agr. Exp. Sta., Bul. 202, p. 226, 1912.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 78, 1914 (figures).
latipennis Crawford, Pomona Jl. Ent., ii, p. 230, 1910.

Host: Diospyros.

Localities: Va., Ga., Fla., Texas.

2858. *Trioza collaris* Crawl.

- Crawford, Pomona Jl. Ent., ii, pp. 229, 347, 1910 (figures).
 Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912 (figures).
 Crawford, U. S. Natl. Mus., Bul. 85, p. 81, 1914 (figures).

Host: (?)

Locality: Calif.

2859. *Trioza longistylus* Crawl.

- Crawford, Pomona Jl. Ent., ii, p. 233, 1910; iii, pp. 424, 434, 1911 (figures).
 Patch, Me. Agr. Exp. Sta., Bul. 202, p. 227, 1912 (figures).
 Crawford, U. S. Natl. Mus., Bul. 85, p. 82, 1914 (figures).

Host: (?)

Locality: Colo.

2860. *Trioza quadripunctata* Crawl.

- Crawford, Pomona Jl. Ent., ii, p. 233, 1910; iii, pp. 425, 433, 1911 (figures).
 Patch, Me. Agr. Exp. Sta., Bul. 202, p. 229, 1912 (figures).
 Crawford, U. S. Natl. Mus., Bul. 85, p. 82, 1914 (figures).

Host: (?)

Localities: N. Y., Colo., Mont., Calif.

2861. *Trioza albifrons* Crawl.

- Crawford, Pomona Jl. Ent., ii, pp. 231, 355, 1910 (figures).
 Crawford, Pomona Jl. Ent., iii, pp. 426, 438, 1911 (figures).
 Crawford, U. S. Natl. Mus., Bul. 85, p. 83, 1914 (figures).
rotundipennis Crawford, Pomona Jl. Ent., ii, pp. 231, 236, 1910 (figures).
 Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 1911 (figures).

Host: Urtica.

Localities: Mont., Calif.

2862. *Trioza urticae* (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes*.
 Linnaeus, Fauna Suec., edn. 2, p. 263, No. 1006, 1761, *Chermes*.
 Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes*.
 DeGeer, Mémoires, iii, p. 134, pl. 9, figs. 17, 18, 19, 1773, *Chermes*.
 Fabricius, Syst. Ent., p. 741, 1775, *Chermes*.
 Goeze, Ent. Beytr., ii, p. 322, 1778, *Chermes*.
 Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes*.
 Retzius, Genera et Spec. Ins., p. 79, 1783, *Chermes*.
 Fabricius, Mant. Ins., ii, p. 318, 1787, *Chermes*.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.
 Fabricius, Ent. Syst., iv, p. 222, 1894, *Chermes*.
 Fabricius, Syst. Rhyng., p. 304, 1803, *Chermes*.

- Zetterstedt, Fauna Lapp., 1828, *Chermcs*.
 Burmeister, Handb. d. Ent., ii, p. 98, 1835, *Psylla*.
 Zetterstedt, Ins. Lapp., column 308, 1840, *Chermes*.
 Blanchard, Hist. Nat. des Ins., Hémip., p. 202, 1840, *Psylla*.
 Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
 Walker, List Homop., iv, p. 924, 1852.
 Flor, Rhyn. Livl., ii, p. 505, 1861.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 386, 1871.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 553, pl. 9, fig. 2.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 141, 1877.
 Scott, Ent. Mo. Mag., xvii, p. 278, 1880.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 253, 1882; xxxviii, p. 23, 1888.
 Edwards, Hemip. Homop. Brit. Isds., p. 256, 1896.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 84, 1914 (notice).
eupoda Hartig in Germar's Zeit. f. Ent., iii, p. 374, 1841, *Psylla*.
 Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.
protensa Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.
forcipata Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 84, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.
crassinervis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 83, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 387, 1871.
bicolor Meyer-Dür, Mitth. Schw. Ent. Ges., iii, pp. 389, 391, 1871.
 Host: Urtica.
 Localities: "E. St." (Europe.)

2863. *Trioza frontalis* Cawf.

- Crawford, Pomona Jl. Ent., ii, pp. 230, 353, 1910 (figures); iii, p. 426, 1911.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 84, 1914 (figures).
similis Crawford, Pomona Jl. Ent., ii, pp. 231, 352, 1910 (figures).
fovealis Crawford, Pomona Jl. Ent., ii, p. 233, 1910. [*similis*].
 Crawford, Pomona Jl. Ent., iii, pp. 426, 438, 1911 (figures; as var. of
a. var. sulcata Cawf.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 85, 1914.
 Host: Amelanchier.
 Localities: Colo., Calif.

2864. *Trioza albiventris* Först.

- Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 84, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1871.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 558, pl. 9, fig. 5.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877; xxix, p. 582, 1879.
 Löw, Wien, Ent. Zeit., i, p. 214, 1882.
 Edwards, Hemip. Homop. Brit. Isds., p. 254, pl. 28, fig. 9, 1896.
sanguinosa Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 85, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1877.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877.
vitreipennis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 98, 1848.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1877.

hypoleuca Thomson, Opusc. Ent., viii, p. 828, 1877.

Hosts: Salix, Betula, Pinus.

Localities: "S. St." (Europe.)

2865. *Trioza obtusa* Patch

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 18, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 85, 1914.

Host: Amelanchier.

Localities: Me., Md., D. C.

2866. *Trioza lobata* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 86, 1914 (figures).

Host: Ceanothus.

Localities: Ariz., Calif.

2867. *Trioza tripunctata* (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*.

Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla*.

Riley, Am. Ent., iii, p. 62, note, 1880, *Psylla*.

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Phylloptecta* (mention).

Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).

Löw, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 163, 1888 (synonymy).

Riley in Lintner, 9th Rept. N. Y. St. Ent., p. 411, 1893 (mention).

Mally, Proc. Ia. Acad. Sci., ii, p. 154, 1895 (mention).

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.

Crawford, Pomona Jl. Ent., ii, pp. 231, 232, 1910; iii, pp. 424, 429, 430, 1911

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 230, 1912. [(figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 87, 1914 (figures).

rubi Walsh and Riley, Am. Ent., i, p. 225, 1869, *Psylla*.

Thomas, 8th Rept. Ill. St. Ent., p. 17, 1879, *Psylla*.

Fuller, Am. Ent., iii, p. 62, 1880, *Psylla*. [*Psylla*.

stripuncta Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 805, 1890,

Hosts: Rubus, Pinus.

Localities: Ont., Me., N. H., N. Y., N. J., D. C., Va., Fla.

[This is not *Trioza tripunctata* Löw, 1877]

2868. *Trioza arizonae* Aulm.

Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *marginata* Crawf.).

Aulmann, Psyllid. Cat., p. 39, 1913.

Crawford, U. S. Natl. Mus., Bul. 85, p. 88, 1914 (figures).

marginata Crawford, Pomona Jl. Ent., ii, pp. 232, 356, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, pp. 424, 427, 1911.

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 228, 1912 (figures).

Host: (?)

Locality: Ariz.

2869. *Trioza maura* Först.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 94, 1848.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 387, 1871.

Löw, Wien. Ent. Zeit., i, p. 214, 1882.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 242, 1882.

Sule, Sitz-Ber. Bohm. Ges. Wissen., v, p. 10, 1911 (figures).

Patch, Me. Agr. Exp. Sta., Bul., p. 228, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 89, 1914 (figures).

helvetina Meyer-Dür, Mitth. Schw. Ent. Ges., iii, pp. 388, 391, 1871.

nigrifrons Crawford, Pomona Jl. Ent., ii, pp. 230, 351, 1910 (figures).

fulvida Crawford, Pomona Jl. Ent., ii, pp. 231, 358, 1910 (figures).

||*similis* Crawford, Pomona Jl. Ent., ii, pp. 231, 359, 1910 (as var. of *fulvida*).

aurantiaca Crawford, Pomona Jl. Ent., ii, pp. 231, 360, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, pp. 426, 428, 628, 1911.

||*frontalis* Crawford, Pomona Jl. Ent., ii, p. 232, 1910 (as var. of *aurantiaca*).

Host: *Salix*.

Localities: Ill., Colo., Utah, N. Mex., Nev., Calif., Ore., Wash.

(Europe.)

2869¼. ***Trioza forcipula*** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 227, 1912.

Host: *Ulmus*.

Localities: Ont., N. Y., Colo.

2869½. ***Trioza pyrifoliae*** Forbes

Forbes, 14th Rept. Ill. St. Ent., p. 98, 1885.

Mally, Proc. Ia. Acad. Sci., ii, p. 154, 1895 (mention).

Host: *Pyrus*.

Locality: Ill.

2870. ***Trioza nigrilla*** Crawf.

Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *nigra* Crawf.).

||*salicis* Mally, Proc. Ia. Acad. Sci., ii, p. 161, 1895.

Crawford, Pomona Jl. Ent., iii, pp. 426, 428, 432, 1911 (figures).

Aulmann, Psyllid. Cat., p. 53, 1913 (listed).

Crawford, U. S. Natl. Mus., Bul. 85, p. 91, 1914 (figures).

Van Duzee, Check List Hemip., p. 86, No. 2870, 1916.

minuta Crawford, Pomona Jl. Ent., ii, p. 232, 1910.

Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 432, 1911 (figures).

||*assimilis* Crawford, Pomona Jl. Ent., ii, p. 233, 1910.

Crawford, Pomona Jl. Ent., iii, pp. 426, 429, 438, 1911 (figures).

||*nigra* Crawford, Pomona Jl. Ent., ii, pp. 232, 258, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, pp. 427, 428, 1911. [*minuta* Crawf.).

||*similis* Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 433, 1911 (as var. of

flori Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *assimilis* Crawf.).

dubia Patch, Me. Agr. Exp. Sta., Bul. 202, p. 226, 1912.

pomona Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *assimilis*

Aulmann, Psyllid. Cat., p. 51, 1913 (listed). [Crawf.).

louisianae Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *nigra*

Aulmann, Psyllid. Cat., p. 48, 1913 (listed). [Crawf.).

Host: *Salix*.

Localities: D. C., Ia., Colo., Nev. Calif. Wash.

2871. ***Trioza varians*** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 231, 361, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 628, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 91, 1914 (figures).

Host: *Salix*.

Localities: Colo., Utah, Calif., Albta., Brit. Col.

2872. *Trioza longicornis* Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 231, 359, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 92, 1914 (figures).

Host: (?)

Locality: Vane. Isl.

2873. *Trioza styliifera* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 229, 1912 (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 93, 1914 (figures).

Host: (?)

Locality: Ont.

2874. *Trioza alymeriae* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 93, 1914.

Host: *Vaccinium* (?) ("Bilberry").

Locality: Quebec.

2875. *Trioza alacris* Flor

Flor, Bul. Soc. Imp. Nat. Moscou, xxxiv, pp. 380, 386, 393, 398, 1861.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 230, 1882; xxxvi, p. 166, 1886.

Thomas, Zeit. f. Pflanzenkr., viii, p. 92, 1891.

Dickel, Zeit. f. Wissen. Ins. Biol., i, p. 402, 1905.

Sule, Sitz.-Ber. Kon. Böhm. Ges. Wissen. Prag, xix, p. 49, 1912.

Crawford, Bul. Calif. St. Comm. Hort., i, p. 86, 1912.

Crawford, U. S. Natl. Mus., Bul. 85, p. 94, 1914 (figures).

Essig, Inj. Benif. Ins. Calif., edu. 2, p. 68, 1915.

Weiss, Can. Ent., xlix, p. 73, 1917.

[(nomen nudum).]

lauri, Targioni-Tozzetti, Resoc. Soc. Ent. Ital. (Atti xi), p. 19, 1879Host: *Laurus*.

Localities: N. J., Calif. (Europe.)

2876. *Trioza viridis* Crawl.

Crawford, Pomona Jl. Ent., ii, pp. 230, 350, 1910 (figures).

Crawford, Pomona Jl. Ent., iii, p. 446, 1911, *Allotrioza* (mention).

Crawford, U. S. Natl. Mus., Bul. 85, p. 95, 1914 (figures).

Host: (?)

Locality: Calif.

2877. *Trioza magnoliae* (Ashm.)Ashmead, Can. Ent., xiii, p. 224, 1881, *Psylla*.

Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).

Crawford, Pomona Jl. Ent., ii, p. 228, 1910 (mention).

Crawford, Pomona Jl. Ent., iii, p. 445, 1911, *Allotrioza* (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 96, 1914 (figures).

Host: *Magnolia*.

Localities: Ga., Fla.

[*Trioza sanguinosa* Riley MS]

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884.

ψsanguinea Aulmann, Psyllid. Cat., p. 54, 1913.Host: *Pinus*.

Locality: (?)

Genus **Neotrioze** Crawford.Orthotype *immaculata* Crawford.Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *Neotrioza* Crawford.).

Crawford, U. S. Natl. Mus., Bul. 85, p. 98, 1914.

||*Neotrioza* Crawford, Pomona Jl. Ent., iii, pp. 423, 450, 1911.2878. **Neotrioze** *immaculata* (Crawf.)Crawford, Pomona Jl. Ent., ii, p. 233, 1910, *Trioza*.Crawford, Pomona Jl. Ent., iii, p. 450, 1911, *Neotrioza* (figures); p. 503, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 98, 1914 (figures).

ottawanensis Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912.

Host: Pinus.

Localities: Ont., Nov. Scot., D. C., Ill., Ia.

2879. **Neotrioze** *sculptoconus* Crawford.

Crawford, U. S. Natl. Mus., Bul. 85, p. 99, 1914.

Host: (?)

Locality: Calif.

2880. **Neotrioze** *laticeps* (Crawf.)Crawford, Pomona Jl. Ent., ii, p. 233, 1910, *Trioza*.Crawford, Pomona Jl. Ent., iii, p. 451, 1911, *Neotrioza* (figures); p. 503, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 100, 1914 (figures).

Host: (?)

Locality: La.

Genus **Ceropsylla** RileyHaplotype *sideroxyli* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 76, 1884 (described).

Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 423, 1911.

Crawford, U. S. Natl. Mus., Bul. 85, p. 100, 1914.

[Crawf.).

Triozeida Crawford, Pomona Jl. Ent., iii, p. 491, 1911 (orthotype *johnsoni*2881. **Ceropsylla** *sideroxyli* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 76, 1884 (described).

Crawford, U. S. Natl. Mus., Bul. 85, p. 101, 1914 (figures).

Host: *Sideroxylon*.

Locality: Fla.

2882. **Ceropsylla** *californica* Crawford.Crawford, Pomona Jl. Ent., ii, pp. 232, 234, 1910, *Trioza* (figures).Crawford, Pomona Jl. Ent., iii, pp. 423, 427, 1911, *Trioza*; p. 492, 1911,

Crawford, U. S. Natl. Mus., Bul. 85, p. 102, 1910.

[*Triozeida*.

Host: Salix.

Localities: Colo., Calif.

Genus **Hemitrioze** Crawford.Orthotype *sonchi* Crawford.

Crawford, U. S. Natl. Mus., Bul. 85, p. 104, 1914.

2883. *Hemitrioza sonchi* Crawford.Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Trioza* (nomen nudum).

Aulmann, Psyllid. Cat., p. 55, 1913 (nomen nudum).

Crawford, U. S. Natl. Mus., Bul. 85, p. 104, fig. 402, 1914 (described).

Host: *Sonchus*.

Localities: D. C., Va., Ga.

Subfamily PSYLLIINAE Van D.

Van Duzee, Check List Hemip., p. 87, 1916 (n.n. for *Psyllinae* Put.).*Psyllaria* Puton, Cat. Hemip. d'Eur. et Méd., p. 91, 1875.Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 607, 1878, *Psyllinae*.Edwards, Hemip. Homop. Brit. Isds., p. 233, 1896, *Psyllidae*.Oshanin, Verz. Palae. Hemip., ii, p. 349, 1907, *Psyllaria*.Oshanin, Kat. Palae. Hemip., p. 126, 1912, *Psyllaria*. (Tribe.)Aulmann, Psyllid. Cat., p. 5, 1913, *Psyllinae*.Crawford, U. S. Natl. Mus., Bul. 85, pp. 18, 105, 1914, *Psyllinae*.

TRIBE PACHYPSYLLINI Crawford.

Crawford, U. S. Natl. Mus., Bul. 85, p. 106, 1914.

Genus *Crawfordiella* Van D.Orthotype *mira* Crawford.Van Duzee, Check List Hemip., p. 87, 1916 (n.n. for *Uhleria* Crawford.).|| *Uhleria* Crawford, U. S. Natl. Mus., Bul. 85, p. 106, 1914.2884. *Crawfordiella mira* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 107, 1914, *Uhleria* (figures).

Van Duzee, Check List Hemip., p. 87, 1916.

Host: (?)

Locality: "U. S." (?).

Genus *Tetragonocephala* Crawford.Orthotype *flava* Crawford.

Crawford, U. S. Natl. Mus., Bul. 85, p. 107, 1914.

2885. *Tetragonocephala flava* Crawford.

Crawford, U. S. Natl. Mus., Bul. 85, p. 108, 1914 (figures).

Host: (?)

Locality: Texas.

Genus *Pachypsylla* RileyLogotype *venusta* (O.S.)

Riley, Can. Ent., xv, p. 157, 1883 (described).

Riley, Proc. Biol. Soc. Wash., ii, p. 71, 1884 (indicates *venusta* as typical).

Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 614, 1890 (monograph,

Crawford, U. S. Natl. Mus., Bul. 85, p. 108, 1914. [names *venusta* type).]Subgenus *Pachypsylla* Riley

Van Duzee, Check List Hemip., p. 87, 1916.

2886. *Pachypsylla venusta* (O.S.)Osten-Sacken, Stet. Ent. Zeit., xxii, p. 422, 1861, *Psylla*.

Riley, Can. Ent., xv, p. 157, fig. 6, 1883 (gall).

Riley, Proc. Biol. Soc. Wash., ii, p. 72, 1884 (redescribed). [*Pachypsylla*, sec. 1].

Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 615, 1890 (as type of

- Riley, in Packard, 5th Rept. U. S. Ent. Comm., pp. 616, 617, fig. 201, 1890
 Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 274, 1892 (gall only). [(gall).
 Townsend, Can. Ent., xxiv, p. 194, 1892.
 Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 137, 1893.
 Beutenmuller, Am. Mus. Jl., iv, p. 120, 1904.
 Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 109, 1914 (figures). [(nomen nudum).
celtidis-grandis Riley, Johnson's Universal Cyclopedia, ii, p. 415, 1876
tridentata Patch, Me. Agr. Exp. Sta., Bul. 202, p. 224, 1912.

Host: Celtis.

Localities: N. J., Kans., Colo., Texas, N. Mex.

2887. *Pachypsylla celtidis-mamma* Riley

- Riley, Johnson's Universal Cyclopedia, ii, p. 415, 1876 (nomen nudum).
 Fyles, Can. Ent., xiv, p. 198, 1882 (gall mite without name).
 Riley, Can. Ent., xv, p. 158, fig. 7, 1883 (gall only).
 Fletcher, 13th Rept. Ent. Soc. Ont., p. 79, 1883, *Psylla*.
 Riley, Proc. Biol. Soc. Wash., ii, p. 73, 1884 (described).
 Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 615 (as type of *Pachypsylla*
 [sec. 2; p. 619, 1890 (described).
 Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892 (gall only).
 Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 131, 1893 (life history, variations in
 Cook, Ohio Nat., iii, p. 426, 1903. [gall).
 Cook, Ind. Dept. Geol., 29th Rept., p. 844, 1904.
 Stough, Kans. Univ. Sci. Bul., v, p. 121, 1910 (anatomy).
 Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 110, 1914 (figures).
 Weiss, Ent. News, xxvii, p. 163, 1916 (mention). [(name only).
?celtidis-asteriscus Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884
 Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890 (gall de-
 [scribed).
?celtidis-umbilicus Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884
 [(name only).
 Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 619, 1884 (gall de-
 [scribed).
?celtidis-pubesceus Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884
 [(name only).
 Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 620, 1884 (gall de-
 [scribed).
?celtidis-globulus Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 621,
 [1890 (gall described).
 Aulmann, Psyllid. Cat., p. 30, 1913 (spelled *globulosus*).
?celtidis-curcubita Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884
 [(name only).
 Riley in Packard, 5th Rept. U. S. Ent. Comm., pp. 621, 622, 1890 (gall
 [described).
 Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 276, 1892 (figures).
 Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
 [These five "species" are nomina nuda in entomology and are mean-
 ingless in botany. Crawford is probably correct in placing them
 as synonyms of *c.-mamma*.]

Host: Celtis.

Localities: Ont., N. Y., N. J., Ind., Ia., Kans., Colo., Texas.

2888. *Pachypsylla rohweri* Ckl.

Cockerell, Ent. News, xxi, p. 180, 1910.

Host: Celtis.

Locality: Colo.

2889. *Pachypsylla celtidis-vesiculum* Crawford.

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (name only).

Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890 (gall described).

Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892 (gall).

Beutenmuller, Am. Mus. Jl., iv, p. 120, 1904 (gall).

Jarvis, 37th Rept. Ent. Soc. Ont., p. 65, 1906 (gall).

Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910 (listed).

Crawford, U. S. Natl. Mus., Bul. 85, p. 112, 1913 (described and figured).

Host: Celtis.

Localities: N. Y., N. J., Ia.

Subgenus *Blastophysa* RileyHaplotype *celtidis-gemma* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 75, 1884 (characterized).

Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 615, 1890 (3d section; [names *c.-gemma* type]).2890. *Pachypsylla celtidis-gemma* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).

Riley, Proc. Biol. Soc. Wash., ii, p. 74, 1884 (described).

Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890.

Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892.

Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 138, 1893.

Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.

Crawford, U. S. Natl. Mus., Bul. 85, p. 112, 1914 (figures).

Host: Celtis.

Localities: N. Y., D. C., Va., Ia., Mo., La., Texas.

2891. *Pachypsylla dubia* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 224, 1912 (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.

Host: Celtis.

Locality: N. Y. (?)

2892. *Pachypsylla pallida* Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912 (figures).

Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.

Host: Celtis.

Locality: Ariz.

2893. *Pachypsylla interneris* Mally

Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 138, 1893.

Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.

Host: Celtis.

Locality: Ia.

[*Pachypsylla celtidis-minuta* Riley MS]

Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 137, 1893.

Host: Celtis.

Locality: Ia.

TRIBE *EUPHYLLURINI* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 114, 1914.

Genus **Katacephala** Crawl.

Orthotype *grandiceps* Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 114, 1914.

2894. **Katacephala grandiceps** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 114, 1914 (figures).

Host: (?)

Localities: Fla. (Bahamas.)

Genus **Euphyllura** Först.

Logotype *phillyrae* Först.

Förster, Verh. Natw. Ver. Preuss, Rheinl., v, p. 93, 1848.

Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 337, 416, 1861.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 607, 1878.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 234, 1904. (Key.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 115, 1914.

2895. **Euphyllura arctostaphyli** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 235, fig. 6, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 116, 1914 (figures).

a. var. **niveipennis** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 236, 1904.

Host: *Aretostaphylos*.

Localities: Wyo., Colo., Ariz., Calif., Wash.

2896. **Euphyllura arbuti** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 237, fig. 7, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 117, fig. 6, 1914.

Host: *Arbutus menziesii*.

Locality: Calif.

2897. **Euphyllura arbuticola** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 118, 1914.

Host: *Arbutus arizonica*.

Locality: Ariz.

TRIBE *ARYTAININI* Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 118, 1914.

Genus **Euphalerus** Schw.

Haplotype *nidifex* Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 238, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 118, 1914.

2898. **Euphalerus nidifex** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, pp. 153, 239, fig. 8, 1904.

Crawford, U. S. Natl. Mus., Bul. 85, p. 119, 1914.

Host: *Piscidia*.

Localities: Fla. (Neotropical.)

2899. **Euphalerus rugipennis** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 120, 1914 (figures).

a. var. **immaculatus** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 121, 1914.

Host: *Ceanothus*.

Localities: Ariz., Calif.

2900. **Euphalerus vermiculosus** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 121, 1914 (figures).

Host: *Ceanothus*.

Locality: Calif.

2901. **Euphalerus propinquus** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 122, 1914 (figures).

Host: *Ceanothus*.

Locality: Ariz.

Genus **Arytaina** Först.Logotype *genistae* Latr.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67 (p. 69 Crawl.), 1848.

Oshanin, Kat. Palae. Hemip., p. 128, 1912 (names *genistae* type).

Crawford, U. S. Natl. Mus., Bul. 85, p. 122, 1914.

‡*Arytaina* Scott, Trans. Ent. Soc. Lond. for 1876, p. 528.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 596, 609, 1878.

Edwards, Hemip. Homop. Brit. Isds., p. 250, 1896.

Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 165, 1905.

‡*Atacnia* Thomson, Opusc. Ent., viii, p. 828, 1877 (as subgenus).*Psyllopa* Crawford, Pomona Jl. Ent., iv, p. 684, 1912 (nomen nudum).2902. **Arytaina robusta** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 123, 1914 (figures).

Host: *Ceanothus*.

Localities: Colo., Ariz., Calif., Wash.

2903. **Arytaina fuscipennis** Crawl.

Crawford, U. S. Natl. Mus., Bul. 85, p. 125, 1914 (figures).

Host: *Ceanothus*.

Localities: Colo., Nev., Calif.

2904. **Arytaina genistae** (Latr.)Latreille, Hist. Nat. Crust. Ins., xii, p. 382, 1804, *Psylla*.Guerin and Percheron, Genera des Ins., pt. 4, No. 8, pl. 4, 1835, *Psylla*.Guerin, Leon. Règne Animal, p. 375, 1843, *Psylla*.

Burmeister, Zool. Handatlas, pl. 29, fig. 28, 1843; edn. 2, p. 139, pl. 31, fig. 28,

Thomson, Opusc. Ent., viii, p. 828, 1877, *Atacnia*. [1860, *Psylla*.

Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 125, 1877; xxviii, p. 597, pl. 9, figs.

Scott, Ent. Mo. Mag., xvii, pp. 132, 1880 (young). [11, 12, 1878.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxviii, p. 19, 1888 (food habits).

Edwards, Hemip. Homop. Brit. Isds., p. 250, pl. 27, fig. 7, 1896.

Sule, Acta Soc. Ent. Bohemiae, ii, p. 4, 1905.

Crawford, U. S. Natl. Mus., Bul. 85, p. 125, 1914 (figures).

ulicis Curtis, Brit. Ent., xii, pl. 565, 1835, *Psylla*.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 529, pl. 8, fig. 1.

spartii Hartig in Germar's Zeit. f. Ent., iii, p. 375, 1841, *Psylla*.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 69, 1848.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 405, 1871.

magna Crawford, Pomona Jl. Ent., iii, p. 628, fig. 209, B. D., 1911, *Psyllopa*.

Hosts: *Ulex*, *Sarothamnus*, *Spartium*.

Localities: Mass. (Europe.)

2905. *Arytaina ribesiae* (Crawf.)

Crawford, Pomona Jl. Ent., iii, p. 630, 1911, *Psyllopa*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 126, 1914 (figures).

Hosts: *Ribes*, *Ceanothus*.

Localities: Colo., Utah, Ariz., Calif.

2906. *Arytaina assimilis* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 127, 1914 (figures).

Host: *Ceanothus*.

Locality: Calif.

2907. *Arytaina minuta* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 128, 1914 (figures).

Host: *Ceanothus*.

Locality: Calif.

2908. *Arytaina chelifera* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 128, 1914 (figures).

Host: *Purshia*.

Localities: Utah, Ariz.

2909. *Arytaina amorphae* (Mally)

Mally, Proc. Ia. Acad. Sci., ii, p. 159, 1895, *Psylla*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 129, 1914 (figures).

vilicis Crawford, Pomona Jl. Ent., iv, p. 684, 1912.

floridensis Crawford, Pomona Jl. Ent., iii, p. 629, 1911, *Psyllopa*.

Host: *Amorpha*.

Localities: Ia., Neb.

2910. *Arytaina ceanothae* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 130, 1914 (figures).

Host: *Ceanothus*.

Locality: Calif.

2911. *Arytaina aculeata* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 131, 1914.

Host: *Ceanothus*.

Locality: Calif.

2912. *Arytaina pubescens* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 131, 1914 (figures).

Host: *Purshia*.

Localities: Nev., Calif.

Genus *Psyllopsis* Löw

Logotype *frazinicola* (Först.)

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 587, 606, 1878.

Edwards, Hemip. Homop. Brit. Isds., p. 233, 1896.

Oshanin, Kat. Palae. Hemip., p. 126, 1912 (names *fraxinicolor* Först. type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 132, 1914.

2913. **Psyllopsis fraxinicola** (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 73, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, pp. 398, 399, 1871, *Psylla*.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 544, pl. 8, fig. 4, *Psylla*.
Thomson, Opusc. Ent., viii, p. 829, 1877, *Psylla*.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877, *Psylla*: xxviii, p. 588, 1878.
Löw, Wien. Ent. Zeit., i, p. 211, 1882.
Edwards, Hemip. Homop. Brit. Isds., p. 234, 1896.
Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.
Felt, 26th Rept. N. Y. St. Ent., p. 39, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 132, 1914 (figures).
viridula Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 74, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 339, 1871, *Psylla*.
unicolor Flor, Rhyn. Livl., ii, p. 479, 1861, *Psylla*.
Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 340, 347, 353, 1861, *Psylla*.
chlorogenea Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 399, 1871, *Psylla*.
Hosts: Fraxinus, Corylus, Juglans.
Localities: N. Y., D. C., Calif. (Europe.)

TRIBE PSYLLINI Van D.

Van Duzee, Check List Hemip., p. 88, 1916 (n.n. for *Psyllini* Crawf.).
Psyllini Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 134, 1914.

Genus **Psyllia** Kirk.

Logotype *pyri* (Linn.)

Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for *Psylla* Auct.).
Van Duzee, Check List Hemip., p. 88, 1916.
†*Psylla* Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 600, 608, 1878.
Edwards, Hemip. Homop. Brit. Isds., p. 235, 1896.
Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 164, 1905.
Oshanin, Verz. Palae. Hemip., ii, p. 350, 1907.
Oshanin, Kat. Palae. Hemip., p. 127, 1912 (names *pyri* Linn. type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 135, 1914 (names *alni* Linn. type).

2914. **Psyllia fibulata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 140, 1914, *Psylla* (figures).
Host: (?)
Locality: Colo.

2915. **Psyllia sinuata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 140, 1914, *Psylla* (figures).
Host: (?)
Localities: Colo., Labrador(?).

2916. **Psyllia parallela** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 141, 1914, *Psylla*.
Host: (?)
Locality: Calif.

2917. *Psyllia maculata* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 141, 1914, *Psylla* (figures).

Host: (?)

Locality: Colo.

2918. *Psyllia brevata* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 202, p. 220, 1912, *Psylla* (figures).Crawford, U. S. Natl. Mus., Bul. 85, p. 141, fig. 133, 1914, *Psylla*.

Host: Pinus.

Localities: Ont., Mich., Calif.

2919. *Psyllia coryli* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 202, p. 223, 1912, *Psylla* (figures).Crawford, U. S. Natl. Mus., Bul. 85, p. 143, 1914, *Psylla*.

Host: Corylus(?).

Locality: Colo.

2920. *Psyllia minuta* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 142, 1914, *Psylla* (figures).

Host: Purshia.

Localities: Utah, Ariz., Nev., Calif.

2921. *Psyllia alba* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 143, 1914, *Psylla* (figures).

Host: Salix.

Localities: Texas, N. Mex., Nev., Calif.

2922. *Psyllia pyricola* (Först.)Förster, Verh. Natw. Ver. Preuss. Rheinfl., v, p. 77, 1848, *Psylla*.Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 396, 1871, *Psylla*.Scott, Ent. Mo. Mag., xix, p. 205, 1883, *Psylla*.Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884, *Psylla*.Löw, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 156, 1886, *Psylla*.Schwarz, Can. Ent., xxiii, p. 231, 1891, *Psylla*.Riley (?), Insect Life, iv, pp. 127, 225, 1891, *Psylla* (transl. of Löw, 1886).Slingerland, Insect Life, v, p. 100, 1892, *Psylla*.Slingerland, Cornell Agr. Exp. Sta., Bul. 44, 1892; Bul. 108, 1896, *Psylla*.Riley and Howard, Insect Life, v, pp. 200, 226, 1893, *Psylla*.Lintner, 9th Rept. N. Y. St. Ent., p. 317, 1893, *Psylla* (bibliography).Marlatt, Insect Life, vii, p. 175, 1894, *Psylla*.Marlatt, U. S. Dept. Agr., Bur. Ent., Circ. 7, 1895, *Psylla*.Edwards, Hemip. Homop. Brit. Isds., p. 240, pl. 27, fig. 2, 1896, *Psylla*.Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910, *Psylla*.Patch, Me. Agr. Exp. Sta., Bul. 187, p. 11, 1911; Bul. 202, p. 221, 1912, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 144, 1914, *Psylla* (figures).Essig, Inj. Benef. Ins. Calif., edn. 2, p. 67, 1915, *Psylla*.†*pyri* Curtis, Brit. Ent., xii, pl. 565, 1836, *Psylla*.Curtis, Gardner's Chronicle for 1840, p. 156, *Psylla*.Harris, Treat. Ins. Inj. Veg., edn. 2, p. 201, 1852, *Psylla*.Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 353, 1856, *Psylla*.Uhler, U. S. Comm. Patents, Rept. for 1860, p. 314, 1861, *Psylla*.Harris, Treat. Ins. Inj. Veg., edn. 3, p. 231, 1862, *Psylla*.Packard, Guide to Study of Ins., p. 531, 1869, *Psylla*.

- Walsh and Riley, Am. Ent., i, p. 225, 1869, *Psylla*.
 LeBaron, 2d Rept. Nox. Ins. Ill., p. 134, 1872, *Psylla*.
 Thomas, 8th Rept. Ill. St. Ent., p. 16, 1879, *Psylla*.
 Ashmead, Can. Ent., xiii, p. 220, 1881, *Psylla*.
 Cooke, Inj. Ins. Orch. and Vineyard, p. 117, 1883, *Psylla*.
 Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Psylla*.
apiophila Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 78, 1848, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 396, 1871, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 137, 1877, *Psylla*.
notula Flor, Bul. Soc. Nat. Moscou, xxxiv, p. 365, 1861, *Psylla*.
 †*pyrisuga* Barnard, Proc. Am. Assoc. Adv. Sci., xxviii, p. 478, 1880, *Psylla*.
 †*simulans* Slingerland, Cornell Univ. Agr. Exp. Sta., Bul. 44, p. 174, 1892,
 Host: *Pyrus*. [*Psylla* (winter form).]
 Localities: Me., Mass., Conn., N. Y., N. J., Md., Va., Ohio, Mich.,
 Ill., Calif. (?)

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2923. *Psyllia hartigi* (Flor)

- Flor, Rhyn. Livl., ii, p. 469, 1861, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 130, 1877; xxix, p. 577, 1880, *Psylla*.
 Thomson, Opusc. Ent., viii, p. 838, 1877, *Chermes*.
 Scott, Ent. Mo. Mag., xviii, p. 255, 1882, *Psylla* (listed).
 Edwards, Hemip. Homop. Brit. Isds., p. 244, pl. 28, fig. 4, 1896, *Psylla*.
 Sule, Cas. Spol. Ent., ii, p. 3, 1905, *Psylla*.
 Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla* (figures).
 Crawford, U. S. Natl. Mus., Bul. 85, p. 146, 1914, *Psylla* (figures).
 ‖*sylvicola* Lethierry, Cat. Hémip., Dept. Nord, p. 90, 1874, *Psylla*.
 Reuter, Medd. Soc. Fauna Flora Fenn., i, p. 73, 1876, *Psylla*.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 539, *Psylla*.
 Douglas, Ent. Mo. Mag., xiii, p. 68, 1876, *Psylla*.
 Host: *Metula*.
 Localities: Mo. (Europe.)

2923½. *Psyllia saliceti* (Först.)

- Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 79, 1848, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 397, 1871, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 132, pl. 6, fig. 4, 1877, *Psylla*.
 Thomson, Opusc. Ent., viii, p. 839, 1877, *Chermes*.
 Sule, Wien. Ent. Zeit., xxviii, p. 15, 1909, *Psylla*.
 Oshanin, Verz. Palae. Hemip., ii, p. 361, 1907; iii, p. 192, 1910, *Psylla*.
salicicola Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 72, 1848, *Psylla*.
 Flor, Rhyn. Liv., ii, p. 467, 1861, *Psylla*.
 Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 345, 348, 355, 1861, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 398, 1871, *Psylla*.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 537, pl. 8, fig. 3, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, p. 198, pl. 1, figs. 6-9, pl. 2, figs.
 Thomson, Opusc. Ent., viii, p. 839, 1877, *Chermes*. [23-25, 1876, *Psylla*.]
 Edwards, Hemip. Homop. Brit. Isds., p. 241, 1896, *Psylla*.
rufula Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 76, 1848, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla*.
subgranulata Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 94, 1848,
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla*. [*Psylla*.]
 Host: *Salix*.
 Locality: Greenland. (Europe.)

2923½. *Psyllia ambigua* (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 79 (p. 74, Osh.), 1848, *Psylla*.

Meyer-Dür, Mitt. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla*.

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 231, 1882, *Psylla*.

Edwards, Hemip. Homop. Brit. Isds., p. 244, 1896, *Psylla*.

Aulmann, Psyllid. Cat., p. 10, 1913, *Psylla* (listed).

insignis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 74, 1848, *Psylla*.

Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla*.

melina Flor, Rhyn. Livl., ii, p. 477, 1861, *Psylla*.

Flor, Bul. Soc. Nat. Moscon, xxxiv, p. 345, 1861, *Psylla*.

Kuwayama, Trans. Sapporo Nat. Hist. Soc., ii, pp. 162, 172, 1907, *Psylla*.

stenolabis Löw, Pet. Nouv. Ent., ii, p. 65, 1876, *Psylla*.

Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, p. 144, pl. 6, fig. 10, 1877, *Psylla*.

Sule, Sitz.-Ber. Bohm. Ges. Wissen. for 1909, No. 22, p. 25, *Psylla*.

annellata Thomson, Opuse. Ent., viii, p. 836, 1877, *Chermes*.

Host: Salix.

Localities: Greenland. (Europe.)

2924. *Psyllia quadrilineata* (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 65, 1851, *Psylla*.

Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla* (after Fitch).

?Provancher, Pet. Faune Ent. Can., iii, p. 305, 1890, *Psylla*.

Mally, Proc. Ia. Acad. Sci., ii, p. 153, 1893, *Psylla*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla*.

Host: Salix.

Localities: Quebec, N. Y., Kans., Colo.

2924½. *Psyllia arctica* (Walk.)

Walker, List Homop., iv, p. 931, 1852, *Aphalara*.

Scott, Trans. Ent. Soc. Lond. for 1882, pl. 19, fig. 1, *Aphalara*.

Psylla sp., Schwarz, Proc. Wash. Acad. Sci., ii, p. 540, 1900.

Host: (?)

Localities: Hudson's Bay, Alaska.

2925. *Psyllia americana* (Crawf.)

Crawford, Pomona Jl. Ent., iii, p. 628, 1911, *Psylla* (nomen nudum).

Crawford, Pomona Jl. Ent., iv, p. 684, 1912, *Psylla* (mentioned). [figured]

Crawford, U. S. Natl. Mus., Bul. 85, p. 147, 1914, *Psylla* (described and

a. var. *minor* (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 147, 1914, *Psylla*.

b. var. *flava* (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla*.

Host: Salix.

Localities: Colo., Utah, Calif., Ore., Brit. Col., Alhta.

2926. *Psyllia ribis* (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla*.

Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla*.

Host: (?)

Localities: Me., Colo.

2927. *Psyllia borealis* Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908.

Host: (?)

Locality: Greenland.

2928. *Psyllia alaskensis* (Ashm.)Ashmead, Harriman Alaska Exped., viii, p. 137, 1904, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 149, fig. 415, 1914, *Psylla*.

Host: (?)

Locality: Alaska.

2929. *Psyllia magnicauda* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 149, 1914, *Psylla* (figures).

Host: (?)

Locality: Colo.

2930. *Psyllia striata* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 187, p. 14, 1911, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 150, 1914, *Psylla*.

Host: Betula.

Localities: Me., N. H., Wis., Colo., Calif.

2931. *Psyllia carpinicola* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 151 (figures), 1914, *Psylla* (n.n. for|| *carpini* Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*. [*carpini* Fl.].Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla* (after Fitch).Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 160, 1908, *Psylla*.

Host: Carpinus.

Localities: Quebec, N. Y., Wis., Ia., Nev.

2932. *Psyllia cephalica* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 151, 1914, *Psylla* (figures).

Hosts: Carpinus, Rubus.

Localities: N. Y., D. C., Wis., Ark., Texas.

2933. *Psyllia annulata* (Fl.)Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*.Riley in Lintner, 9th Rept. N. Y. St. Ent., p. 411, 1893, *Psylla* (note).Patch, Me. Agr. Exp. Sta., Bul. 202, p. 219, 1912, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 152, 1914, *Psylla* (figures).

Host: Acer.

Localities: Conn., N. Y., Ia.

2934. *Psyllia negundinis* (Mally)Mally, Proc. Ia. Acad. Sci., ii, p. 155, 1894, *Psylla*.Patch, Me. Agr. Exp. Sta., Bul. 202, p. 220, 1912, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 152, 1914, *Psylla*.

Host: Negundo.

Localities: Ia., Wis., Colo., N. Mex.

2935. *Psyllia brevistigmata* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla* (figures).Crawford, U. S. Natl. Mus., Bul. 85, p. 153, 1914, *Psylla* (figures).a. var. *magna* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, p. 154, 1914, *Psylla*.

b. var. *acuta* (Crawf.)Crawford, U. S. Natl. Mus., Bul. 85, pl. 154, 1914, *Psylla*.

Host: Pinus, Cercocarpus.

Localities: Colo., Utah, Nev., Calif.

2936. *Psyllia floccosa* (Patch)Patch, Can. Ent., xli, p. 301, 1909, *Psylla*.Patch, Ann. Ent. Soc. Am., ii, p. 117, 1909, *Psylla* (venation).Patch, Me. Agr. Exp. Sta., Bul. 187, p. 11, 1911, *Psylla* (figures).Crawford, U. S. Natl. Mus., Bul. 85, p. 154, 1914, *Psylla* (figures).

Host: Alnus.

Localities: Ont., Me., N. H., Md., Colo., Calif.

2937. *Psyllia astigmata* Crawf.Crawford, U. S. Natl. Mus., Bul. 85, p. 155, 1914, *Psylla* (figures).

Host: Prunus.

Localities: Wis., Colo., Calif., Wash.

2938. *Psyllia trimaculata* (Crawf.)Crawford, Pomona Jl. Ent., iii, p. 631, 1911, *Psylla* (as var. of *alni*).Crawford, U. S. Natl. Mus., Bul. 85, p. 155, 1914, *Psylla*.

Host: (?)

Locality: N. Y.

2939. *Psyllia cerasi* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 202, p. 223, 1912, *Psylla* (figures).Crawford, U. S. Natl. Mus., Bul. 85, p. 156, 1914, *Psylla*.

Host: Cerasus.

Locality: Me.

2940. *Psyllia alni* (Linn.)Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes*.Linnaeus, Fauna Suec., edn. 2, p. , No. 1008, 1761, *Chermes*.Geoffroy, Hist. Abreg. des Ins., i, p. 486, No. 3, 1762, *Psylla*.Scopoli, Ent. Carn., p. 140, 1763, *Chermes*.Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes*.DeGeer, Mémoires, iii, p. 148, pl. 10, fig. 8, 1773, *Chermes*.Fabricius, Syst. Ent., p. 741, 1775, *Chermes*.Goeze, Ent. Beytr., ii, p. 323, 1778, *Chermes*.Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes*.Retzius, Genera et Spec. Ins., p. 79, 1783, *Chermes*.Fabricius, Mant. Ins., ii, p. 318, 1787, *Chermes*.Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.Latreille, Hist. Nat. Crust. Ins., iii, p. 267, 1802, *Psylla*.Fabricius, Ent. Syst., iv, p. 222, 1794, *Chermes*.Fabricius, Syst. Rhynch., p. 305, 1803, *Chermes*.Latreille, Hist. Nat. Crust. Ins., xii, p. 380, 1804, *Psylla*.Latreille, Genera Crust. Ins., iii, p. 169, 1807, *Psylla*.Latreille, Consid. Gén., p. 434, 1810 (as type of *Psylla*).Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Psylla*.Zetterstedt, Fauna Lapp., p. 556, 1828, *Chermes*.

- Burmeister, Hand. d. Ent., ii, p. 98, 1835, *Psylla*.
 Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 70, 1848, *Psylla*.
 Walker, List Homop., iv, p. 912, 1852, *Psylla* (bibliography).
 Flor, Rhyn. Livl., ii, p. 460, 1861, *Psylla*.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 532, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, pl. 2, figs. 26, 32-35, 1876, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxxviii, p. 17, 1888, *Psylla* (note).
 Edwards, Hemip. Homop. Brit. Isds., p. 248, pl. 27, fig. 4, 1896, *Psylla*.
 Aulmann, Psyllid. Cat., p. 9, 1913, *Psylla*.
 Crawford, U. S. Natl. Mus., Bul. 85, p. 160, pl. 27, fig. 476, 1914, *Psylla*.
 fuscinervis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 70, 1848, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 395, 1871, *Psylla*.
 heydeni Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 81, 1848, *Psylla*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 395, 1871, *Psylla*.

a. var. **americana** (Crawf.)

- Crawford, U. S. Natl. Mus., Bul. 85, p. 156, 1914, *Psylla* (figures).
 Host: Alnus.
 Localities: "Am. Sept." (Linnaeus), Nev., Calif. (Europe.)

2940^{1/2}. **Psyllia buxi** (Linn.)

- Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes*.
 Geoffroy, Hist. Abreg. des Ins., i, p. 485, No. 2, 1762, *Psylla* (without name).
 Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes*.
 Fabricius, Syst. Ent., p. 740, 1775, *Chermes*.
 Goeze, Ent. Beytr., ii, p. 322, 1778, *Chermes*.
 Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes*.
 Foureroy, Ent. Paris., i, p. 223, 1785, *Psylla*.
 Fabricius, Mant. Ins., ii, p. 317, 1787, *Chermes*.
 Gmelin in Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.
 Fabricius, Ent. Syst., iv, p. 221, 1794, *Chermes*.
 Fabricius, Syst. Rhyng., p. 304, 1803, *Chermes*.
 Blanchard, Hist. des Ins., Hémip., p. 210, 1840, *Chermes*.
 Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 71, 1848, *Psylla*.
 Walker, List Homop., iv, p. 913, 1852, *Psylla*.
 Westwood, Garduer's Chronicle for 1852, p. 517, *Chermes*.
 Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 399, 1871, *Psylla*.
 Scott, Trans. Ent. Soc. Lond. for 1876, p. 534, *Psylla*.
 Scott, Ent. Mo. Mag., xvii, p. 18, 1880, *Psylla*.
 Löw, Verh. Zool.-Bot. Ges. Wien, xxxi, p. 169, 1881, *Psylla*.
 Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910, *Psylla*.
 Riley in Packard, 5th Rept. U. S. Ent. Comm., p. 672, 1890, *Psylla*.
 Edwards, Hemip. Homop. Brit. Isds., p. 249, pl. 28, fig. 7, 1896, *Psylla*.
 Weiss, Ent. News, xxviii, p. 96, 1917 (occurrence).
 Host: Buxus.
 Localities: N. J., D. C. (Europe.)

2941. **Psyllia caudata** (Crawf.)

- Crawford, U. S. Natl. Mus., Bul. 85, p. 157, 1914, *Psylla* (figures).
 Host: Alnus.
 Locality: Colo.

2942. *Psyllia galeaformis* (Patch)Patch, Me. Agr. Exp. Sta., Bul. 187, p. 12, 1911, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 157, fig. 144, 1914, *Psylla*.

Host: Alnus.

Localities: Ont., Me., N. H., N. Y., Mich., Wash.

UNCERTAIN SPECIES

2943. *Psyllia reticeps* (Prov.)Provancher, Pet. Faune Ent. Can., iii, p. 305, 1890, *Psylla*.Crawford, U. S. Natl. Mus., Bul. 85, p. 159, 1914, *Psylla*.

Host: (?)

Locality: Quebec.

2943 $\frac{1}{4}$. *Psylla ochracea* Prov.

Provancher, Nat. Can., iv, p. 379, 1872.

Host: (?)

Locality: Quebec.

2943 $\frac{1}{2}$. *Psylla brunnea* Prov.

Provancher, Nat. Can., iv, p. 379, 1872.

Host: (?)

Locality: Quebec.

2943 $\frac{3}{4}$. *Psylla cedrelae* Kief.

Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 32, fig. 11, pl. 2, fig. 20, 1905.

Aulmann, Psyllid. Cat., p. 12, 1913.

Host: (?)

Locality: "Amerika."

2944. *Diraphia quadricornis* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 306, 1890.

Crawford, U. S. Natl. Mus., Bul. 85, p. 160, 1914, *Psylla*.

Host: (?)

Locality: Ont.

2945. *Diraphia sanguinea* Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.

Crawford, U. S. Natl. Mus., Bul. 85, p. 160, 1914, *Psylla*.

Host: (?)

Locality: Quebec.

ADDITIONS AND CORRECTIONS

(The head-lines are not included in counting the lines.)

Page 4, after line 16, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 6, after line 8 from bottom, add

Barber, Jl. N. Y. Ent. Soc., xix, p. 198, 1911. N. J.

Page 16, line 9, for *gilletti* read *gillettii*.

Page 20, after line 29, add

Stoner, Proc. Ia. Acad. Sci., xxiii, p. 304, 1916. Ia.

Page 22, after line 30, add

Stoner, Proc. Ia. Acad. Sci., xxiii, p. 304, 1916. Ia.

Page 49, after line 30, add

Olsen, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910.

Page 62, after line 4, add

Barber, Jl. N. Y. Ent. Soc., xix, p. 198, 1911. N. J.

Page 74, after line 9, add

Osborn and Drake, Ohio Nat., xv, p. 508, 1915. Ohio.

Page 88, after line 1, add

Gibson, Psyche, xxiv, p. 69, 1917 (key to species).

Page 104, after line 29, add

Morrill, U. S. Dept. Agr., Div. Ent., Bul. 39, 1899.

Page 119, after line 3, add

Osborn and Drake, Ohio Nat., xv, p. 506, 1915. Ohio.

Page 126, after line 22, add

Osborn and Drake, Ohio Nat., xv, p. 506, 1915. Ohio.

Page 142, after line 5, add

Osborn and Drake, Ohio Nat., xv, p. 505, 1915. Ohio.

Page 147, after line 1, add

Barber, Psyche, xxiv, p. 128, 1917 (key to N. American genera).

Page 155, after line 2, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 190, after line 15 from bottom, add

582½. *Rhyparochromus plenus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 216, pl. 19, fig. 23, 1882.

Parshley, Can. Ent., xlix, p. 47, 1917.

Localities: Mass., Conn., Ariz. (Guatemala.)

Page 200, after line 7, add

Bueno, Ent. News, xxviii, p. 65, 1917 (review of Am. species).

Page 203, after line 11 from bottom, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 210, line 11 from bottom should follow line 19 from bottom.

Page 211, at bottom of page, add

637½. *Acalypta grisea* Heid.

Heidemann, Proc. Ent. Soc. Wash., xviii, p. 218, pl. 17, fig. 2, 1916.

Localities: Mass., Md., N. C.

Page 212, after line 3, add

Parshley, Psyche, xxiv, p. 14, 1917.

Page 212, after line 7, add

637%. *Acalypta cooleyi* Drake

Drake, Ohio Jl. Sci., xvii, p. 213, 1917.

Locality: Mont.

Page 212, after line 10, add

Parshley, Psyche, xxiv, p. 15, 1917.

Page 212, after line 13, add

Genus *Dictyonota* Curt.

Orthotype $\ddagger$ *eryngii* Curt. = *strichnocera* Fieb.

Curtis, Brit. Ent., iv, pl. 154, 1827.

Fieber, Ent. Monog., p. 91, 1844.

[pseudotype].

Laporte, Essai Syst. Classif. Hémip., p. 50, 1832 (names *crassicornis* Fabr.

Spinola, Essai sur les Hémip., p. 165, 1837 (1840), *Dyctionota*.

Herrieh-Schaeffer, Wanz. Ins., iv, p. 73, 1839.

[as type].

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (cites *eryngii*

Spinola, Tavola Sinot., p. 43, 1850, *Dyctionota*.

Flor, Rhyn. Livl., i, p. 357, 1860.

Fieber, Europ. Hemip., pp. 36, 126, 1861.

Douglas and Scott, Brit. Hemip., p. 255, 1865.

Walker, List Heter., vi, pp. 175, 176, 1873.

Horvath, Ann. Mus. Natl. Hung., iv, pp. 13, 36, 1906 (monograph).

Subgenus *Alcletha* Kirk.

Orthotype *tricornis* Schrnk.

Kirkaldy, Entomol., xxxiii, p. 241, 1900 (n.n. for $\ddagger$ *Dictyonota* Stål).

Horvath, Ann. Mus. Natl. Hung., iv, p. 37, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 415, 1908.

Oshanin, Kat. Palae. Hemip., p. 43, 1912.

$\ddagger$ *Dictyonota* Stål, Enum. Hemip., iii, p. 118, 1873.

Stål, Of. Vet. Akad. Forh., xxxi, p. 49, 1874.

Puton, Synop. Heter. Fr., i, p. 100, 1879.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 7, 1896.

637%. *Dictyonota tricornis* (Schrnk.)

Schrank, Fauna Boic., ii, p. 67, 1801, *Acanthia*.

Reuter, Revue Synon., p. 221, No. 173, 1888.

Horvath, Ann. Mus. Zool. Univ. Napoli, ii, No. 10, pp. 1, 3, 1906.

Horvath, Ann. Mus. Natl. Hung., iv, p. 41, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 415, 1908.

crassicornis Fallén, Monog. Cimic. Suec., p. 38, 1807, *Tingis*.

Curtis, Brit. Ent., iv, pl. 154, 1827.

Zetterstedt, Fauna Lapp., p. 480, 1828, *Tingis*.

Fallén, Hemip. Suec. Cimic., p. 147, 1829, *Tingis*.

Laporte, Essai Classif. Syst. Hémip., p. 50, 1832 (as type).

Brulle, Hist. des Ins., ix, p. 339, pl. 25, fig. 6, 1835, *Tingis*.

Spinola, Essai sur les Hémip., p. 165, 1837 (1840), *Dyctionota*.

Zetterstedt, Ins. Lapp., column 269, 1840, *Tingis* (*Picsma*).

Fieber, Ent. Monog., p. 92, pl. 7, figs. 42-47, 1844.

Sahlberg, Geoe. Fenn., p. 134, 1848.

Herrieh-Schaeffer, Wanz. Ins., ix, p. 157, 1853.

Flor, Rhyn. Livl., i, p. 358, 1860.

Fieber, Europ. Hemip., p. 127, 1861.

Douglas and Scott, Brit. Hemip., p. 255, 1865.

- Walker, Cat. Heter., vi, p. 177, 1873.
 Stål, Of. Vet. Akad. Forh., xxxi, p. 49, 1874.
 Saunders, Trans. Ent. Soc. Lond. for 1875, p. 250.
 Puton, Synop. Heter. Fr., i, p. 100, 1879.
 Reuter, Ent. Tidskr., iii, p. 117, 1882.
 Saunders, Hemip. Heter. Brit. Isds., p. 128, pl. 12, fig. 1, 1892.
 Rey, Échange, ix, p. 97, 1893.
 Hüeber, Fauna Germ., Hemip., p. 313, 1893.
erythrophthalma Germar, Fauna Ins. Eur., iii, pl. 25, 1817, *Tingis*.
 Schilling, Berm. u. Tingis, in Arb. Veränd. Schles. Ges. for 1837.
 Herrich-Schaeffer, Wanz. Ins., iv, p. 74, 1839. [p. 106, 1838, *Tingis*.
 Fieber, Ent. Monog., p. 94, pl. 8, figs. 1-3, 1844.
 Herrich-Schaeffer, Wanz. Ins., ix, p. 158, 1853.
 Fieber, Europ. Hemip., p. 127, 1861.
 Garbiglietti, Bul. Soc. Ent. Ital., i, p. 275, 1869.
 Walker, Cat. Heter., vi, p. 177, 1873.
 Puton, Synop. Heter. Fr., i, p. 100, 1879 (as var.). [*Tingis*.
pilicornis Herrich-Schaeffer, Fauna Ins. Germ., No. 118, pl. 17, 1830.
 Herrich-Schaeffer, Nomen. Ent., p. 57, 1835, *Tingis*.
 Herrich-Schaeffer, Wanz. Ins., iv, p. 74, 1839.
 Fieber, Ent. Monog., p. 95, pl. 8, figs. 8-9, 1844.
 Kolenati, Melet. Ent., vi, p. 14, 1856, *Campylostira*.
 †*marginatum* Burmeister, Handb. d. Ent., ii, p. 258, 1835, *Piesma*.
 Costa, Cimic. Reg. Neap., Cent. i, p. 21, 1838.
 Blanchard, Hist. des Ins., Hémip., p. 112, 1840, *Tingis*.
truncaticollis Costa, Add. Cimic. Reg. Neap., p. 7, pl. 1, fig. 4, 1860.
lurida Garbiglietti, Bul. Soc. Ent. Ital., i, p. 274, 1869.
erythrocephala Garbiglietti, Bul. Soc. Ent. Ital., i, p. 275, 1869.
 Walker, Cat. Heter., vi, p. 178, 1873.
 a. var. **americana** Pshly.
 Parshley, Psyche, xxiii, p. 164, 1916.
 Locality: Mo. (for variety only, the species in Europe).
 Page 212, after line 13 from bottom, add
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917. Ia., Okl., Texas, Calif.
 Page 212, after line 7 from bottom, add
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 300, 1917. Md., Va., Tenn., Ariz.
 Page 213, after line 9, add
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917.
 Page 213, after line 13, add
 639¼. **Corythucha salicis** O. & D.
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917.
 Localities: Mass., Wis., Mont.
 Page 213, after line 15, add [Ga., Wis., S. D., Ia., Neb., Texas, Col.
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 300, 1917. Pa., Md., Va., S. C.,
 Page 213, after line 2 from bottom, add
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Idaho, Ore., Calif.
 [This species may prove distinct from *fuscigera* Stål.]
 Page 214, after line 8, add
 644¼. **Corythucha morrilli** O. & D.
 Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917.
 Localities: Colo., Ariz.

644½. *Corythucha coryli* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 299, 1917.

Locality: Md.

Page 214, after line 17, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917. Pa., Ga., Tenn., Ia., La.

Page 214, after line 5 from bottom, add

648¼. *Corythucha pura* Gibs.

Gibson, Ent. News, xxviii, p. 258, 1917.

Locality: Wash.

Page 215, after line 3, add

648¾. *Corythucha eriodictyonae* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 302, 1917.

Locality: Calif.

Page 215, after line 11, add

[Wis.]

Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917. Ga., Ohio, Tenn., Ia.,

Page 215, after line 15, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Colo., Ariz.

Page 215, after line 21, add

[Calif.]

Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Wyo., Utah, Mont.,

spinata Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Mont.

Page 215, after line 27, add

[(as var.)]

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917. Ky., Ill.

Page 215, after line 30, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917.

Page 215, after line 34, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917. N. Y., D. C., Tenn.

Page 215, after line 11 from bottom, add

Corythucha padi Drake

Drake, Ohio Jl. Sci., xvii, p. 215, 1917.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 303, 1917.

Localities: Mont., Wash., Ore., B. C.

Corythucha hoodiana O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 302, 1917.

Locality: Ore.

Page 215, after line 6 from bottom, add

Drake, Ohio Jl. Sci., xvii, p. 214, 1917.

Page 215, after line 5 from bottom, add

650½. *Dolichocysta acuta* Drake

Drake, Ohio Jl. Sci., xvii, p. 214, 1917.

Localities: Colo., Mont.

Page 216, after line 15, add

Parshley, Psyche, xxiv, p. 15, 1917.

Page 216, after line 5 from bottom, add

Dickerson and Weiss, Ent. News, xxviii, p. 101, 1917 (life history).

Page 217, after line 3, add

Champion, Ent. Mo. Mag., lii, p. 207, 1916.

Parshley, Psyche, xxiv, p. 15, 1917.

Dickerson, Jl. N. Y. Ent. Soc., xxv, p. 105, 1917, *Leptobyrsa* (full account).

Page 217, after line 23, add

Drake, Ent. News, xxviii, p. 227, 1917 (key to species).

Page 218, after line 19, add

658 $\frac{1}{8}$. **Gargaphia albescens** Drake

Drake, Ent. News, xxviii, p. 228, 1917.

Locality: Calif.

Genus **Corythaica** Stål

Haplotype *monacha* Stål

Stål, Enum. Hemip., iii, pp. 120, 128, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 9, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 58.

Typonotus Uhler, Proc. Zool. Soc. Lond. for 1893, p. 716.

658 $\frac{1}{4}$. **Corythaica bellula** Bueno

Bueno, Bul. Brookl. Ent. Soc., xii, p. 19, 1917.

Locality: N. Y.

658 $\frac{1}{2}$. **Corythaica constricta** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917.

Locality: Colo.

Page 218, after line 25, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 60, 1917 (key to species).

Page 218, after line 31, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 62, 1917. Ia., Neb., Wis.

Page 218, after line 37, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 61, 1917.

Page 218, after line 6 from bottom, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 63, 1917. N. J., La.

Page 218, after line 5 from bottom, add

661 $\frac{1}{2}$. **Leptostyla vilifer** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 60, 1917.

Locality: Ariz.

Page 219, after line 9 from bottom, add

Parshley, Psyche, xxiii, p. 165, 1916.

Page 220, after line 6, add

Parshley, Psyche, xxiv, p. 16, 1917.

McAtee, Bul. Brookl. Ent. Soc., xii, p. 55, 1917 (key to species).

Page 220, after line 16, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 58, 1917. Ont., Tenn., Ohio, Wis., [Neb.

Page 220, after line 17, add

666 $\frac{1}{4}$. **Leptoypha costata** Pshly.

Parshley, Psyche, xxiv, p. 16, 1917 (Febr.).

McAtee, Bul. Brookl. Ent. Soc., xii, p. 57, 1917. [1, 1917 (June).

distinguenda Heidemann, Proc. Ent. Soc. Wash., xviii, p. 218, pl. 17, fig.

Localities: Md., D. C., Va.

Page 220, after line 20, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 59, 1917. Texas, Calif.

Page 220, after line 21, add

666 $\frac{3}{4}$. **Leptoypha minor** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 56, 1917.

Locality: Calif.

666 $\frac{3}{4}$. **Leptoypha elliptica** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 57, 1917.

Locality: Texas.

Page 220, after line 26, add

Parshley, Psyche, xxiv, p. 17, 1917 (key to species).

Page 221, at top of page, add

669¼. *Melanorhopala obscura* Pshly

Parshley, Psyche, xxiii, p. 167, 1916.

Locality: Mass.

Page 221, after line 3, add

669⅝. *Melanorhopala infuscata* Pshly.

Parshley, Psyche, xxiv, p. 19, 1917.

Locality: Va.

Genus *Hesperotingis* Pshly.

Orthotype *antennata* Pshly.

Parshley, Psyche, xxiv, p. 21, 1917.

669¾. *Hesperotingis antennata* Pshly.

Parshley, Psyche, xxiv, p. 21, 1917.

Locality: Conn.

669⅞. *Hesperotingis fuscata* Pshly.

Parshley, Psyche, xxiv, p. 24, 1917.

Locality: Colo.

Page 221, after line 14, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 305, 1917 (key to species).

Parshley, Psyche, xxiv, p. 24, 1917.

Page 221, after line 16, add

Parshley, Psyche, xxiv, p. 25, 1917. N. H.

Page 221, after line 17, add

670⅝. *Alveotingis minor* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 305, 1917.

Locality: Ia.

670¾. *Alveotingis brevicornis* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 306, 1917.

Locality: Ia.

Page 222, after line 14 from bottom, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917.

Page 222, after line 6 from bottom, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917. Colo., N. Mex.

Page 222, after line 1 from bottom, add

679¼. *Atheas nigricornis* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 45, pl. 3, fig. 21, 1898.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 296, 1917.

Localities: Ariz. (Mexico, Guatemala.)

679¼. *Atheas annulatus* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917.

Locality: Ark.

679½. *Atheas sordidus* O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 296, 1917.

Locality: Ia.

Page 223, after line 25, add

Drake, Bul. Brookl. Ent. Soc., xii, p. 49, 1917 (key to species).

Page 223, after line 29, add

681 $\frac{1}{4}$. **Monanthia ehrethiae** Gibs.

Gibson, Bul. Brookl. Ent. Soc., xii, p. 50, 1917.

Locality: Texas.

681 $\frac{1}{2}$. **Monanthia coloradensis** Drake

Drake, Bul. Brookl. Ent. Soc., xii, p. 51, 1917.

Locality: Colo.

Page 248, line 12 from bottom, for *gerstackeri* read *gerstaeckeri*.

Page 257, after line 11 from bottom, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 112, 1911. N. Y.

Page 273, after line 8 from bottom, add

Genus **Merragata** White.

Haplotype *hebroides* White.

White, Ann. Mag. Nat. Hist., ser. 4, xx, p. 113, 1877.

Champion, Biol. Centr. Am., Heter., ii, p. 121, 1898.

Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 215, 1908 (catalogue).

Bueno, Can. Ent., xlv, p. 32, 1912 (key to species).

Drake, Ohio Jl. Sci., xvii, p. 101, 1917 (key to species). [Berg.).

Lipegompplus Berg, Hemip. Arg., p. 286, 1879 (haplotype *lacuniferus*

Berg, Hemip. Arg. Add., p. 116, 1884.

Berg, Ann. Soc. Sci. Arg., ix, p. 14.

813 $\frac{1}{4}$. **Merragata foveata** Drake

Drake, Ohio Jl. Sci., xvii, p. 103, 1917.

Localities: Ohio, Colo.

813 $\frac{1}{2}$. **Merragata brunnea** Drake

Drake, Ohio Jl. Sci., xvii, p. 105, 1917.

Locality: Ohio.

Page 274, after line 22, add

Hungerford, Psyche, xxiv, p. 73, 1917 (life history).

Page 282, after line 9 from bottom, add

Patch, Me. Agr. Exp. Sta., Bul. 244, p. 283, 1915 (life history).

Page 287, line 7, for Moufflet read Moufet.

Page 289, line 1, after Isis insert vii.

Page 291, line 4 from bottom, for Scholz read Scholtz.

Page 292, after line 13, add

Genus **Macrotracheliella** Champ.

Haplotype *lucris* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 322, 1900.

Parshley, Ent. News, xxviii, p. 37, 1917.

852 $\frac{1}{2}$. **Macrotracheliella nigra** Parshley.

Parshley, Ent. News, xxviii, p. 38, 1917.

Locality: Mass.

Page 295, after line 6, add

Genus **Melanocoris** Champ.

Haplotype *obovatus* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 329, 1900.

865 $\frac{1}{2}$. **Melanocoris obovatus** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 330, pl. 19, fig. 27, 1900.

Localities: Calif. (Giffard). (Guatemala.)

Page 309, after line 1, add

Reuter, Ann. Soc. Ent. Belg., lvii, p. 80, 1913.

Page 309, after line 6, add

§longipennis Oshanin, Kat. Palae. Hemip., p. 69, 1912 (as synonym).

Page 314, after line 9, add

Knight, Can. Ent., xlix, p. 251, 1917.

Page 325, after line 33, add

Genus **Neobothynotus** Wirtn.

Orthotype *modestus* Wirtn.

Wirtner, Ent. News, xxviii, p. 33, 1917.

976½. **Neobothynotus modestus** Wirtn.

Wirtner, Ent. News, xxviii, p. 34, 1917.

[*pilosus* Boh.).

Knight, Can. Ent., xlix, p. 251, 1917 (suggests identity with *Bothynotus*

Localities: Pa., Ill.

Page 326, line 26

McAtee, Ann. Ent. Soc. Am., ix, p. 370, 1916. Lists following color varieties:

rubidus McAtee, p. 371.

triops McAtee, p. 371.

diops McAtee, p. 372.

percursor McAtee, p. 372.

compar McAtee, p. 373.

cunealis McAtee, p. 373.

lucidus McAtee, p. 373.

par McAtee, p. 373.

sordidus McAtee, p. 374.

bidens McAtee, p. 374.

ardens McAtee, p. 375.

nubilus McAtee, p. 375.

delta McAtee, p. 376.

varius McAtee, p. 376.

bicolor McAtee, p. 376.

Page 326, line 2 from bottom

McAtee, Ann. Ent. Soc. Am., ix, p. 382, 1916, lists following color varieties:

castus McAtee, p. 382.

colonus McAtee, p. 383.

amiculus McAtee, p. 384.

Page 327, after line 7, add

a. var. **ablutus** McAtee.

McAtee, Ann. Ent. Soc. Am., ix, p. 386, 1916.

Page 327, line 23

McAtee, Ann. Ent. Soc. Am., ix, p. 377, lists three color varieties:

ancora Kngt., p. 378.

fissus McAtee, p. 379.

pallidulus McAtee, p. 380.

Page 327, line 8, from bottom, for Zeit. read Monats.

Page 329, line 31, for Samm. read Versamm.

Page 329, line 33, for *Strob.* read *Strobl.*

Page 335, line 9 from bottom, for Trans. read Proc.

Page 339, at bottom of page, add

Mr. Knight in his revision of genus *Lygus*, now being published as Bulletin 391, Cornell Univ. Agr. Exp. Sta., uses the following classification of the species, founded on genital characters only:

Group I (*pratensis* group)

- pratensis* Linn., var. *punctatus* Zett., p. U. S., Can.
- pratensis* Linn., var. *rubidus* Kngt., p. Me.
- vanduzeei* Knight., p. E. U. S., Can. [Quebec, Nova Scot.
- vanduzeei* Kngt., var. *rubroclarus* Kngt., p. Mass., Vt., N. H., Me.,
- convexicollis* Reut., p. Calif., Wash.
- convexicollis* Kngt., var. *coloratus* Kngt., p. Calif.
- humeralis* Kngt., p. Br. Col.
- columbiensis* Kngt., p. Br. Col.
- superiorensis* Kngt., p. Mich.
- atriflavus* Kngt., p. Colo., N. Mex., Calif.
- elusus* Van D., p. S. D., Wyo., Colo., Texas, Ariz., Calif.
- elusus* Van D., var. *viridiscutus* Kngt., p. Calif.
- elusus* Van D., var. *hesperius* Kngt., p. Calif.
- plagiatus* Uhl., p. Mass., R. I., N. Y., N. J., Mo.
- striatus* Kngt., p. Calif.
- nigropallidus* Kngt., p. N. Mex.
- areatus* Kngt., p. Calif.
- bradleyi* Kngt., p. Calif.
- niblius* Van D., p. Calif.
- ultranubilis* Kngt., p. Neb., Colo., N. Mex.
- nubilatus* Kngt., p. Calif.
- nubilosus* Kngt., p. Colo., Utah, N. Mex.
- distinguendus* Reut., p. Colo., Utah, B. C. (Asia).
- distinguendus* Reut., var. *tahoensis* Kngt., p. Calif.
- robustus* Uhl., p. Colo., Calif.

Group II (*campestris* group)

- rubicundus* Fall., p. U. S., Can. (Europe.)
- rubicundus* Fall., var. *winnipegensis* Kngt., p. Manitoba.
- sallei* Stål, p. Colo., N. Mex., Ariz., Calif.
- campestris* Linn., p. U. S., Can. (Europe.)
- distinctus* Kngt., p. Ariz.
- pabulinus* Linn., p. U. S., Can. (Europe.)

Group III (*approximatus* group)

- approximatus* Stål, p. N. H., N. Y., Ont., B. C., Alask.

Group IV (*olivaceus* group)

- olivaceus* Reut., p. Conn., N. Y., N. J., Fla., La. (West Indies.)
- olivaceus* Reut., var. *viridiusculus* Kngt., p. Mass.
- fasciatus* Reut., p.

Group V (*apicalis* group)

- apicalis* Fieb. U. S. (Neotropical.)

Group VI (*communis* group)

(Subgenus *Neolygus* Kngt. n. subg., p.)

- fagi* Kngt., p. Vt., Mass., N. Y.
- invitus* Say, p. E. St.

- atritylus* Kngt., p. Vt., N. H., Colo.
confusus Kngt., p. Me., N. H.
alni Kngt., p. N. H., N. Y., Nova Scot.
geneseensis Kngt., p. Mass., N. Y., Pa., Md., Va., Mo.
viburni Kngt., p. Vt., Conn., N. Y.
parshleyi Kngt., p. Me., N. H.
parshleyi Kngt., var. *shermani* Kngt., p. N. C.
inconspicuus Kngt., p. Conn., N. Y., Md., Va., Ga.
tiliae Kngt., p. Vt., Mass., Conn., N. Y., Ont.
caryae Kngt., p. Vt., Mass., Conn., N. Y., Miss.
caryae Kngt., var. *subfuscus* Kngt., p. Mass., Conn., N. Y., Miss.
atrinotatus Kngt., p. Pa., D. C., N. C.
vitticollis Reut., p. N. Y., Mich.
neglectus Kngt., p. Mass.
communis Kngt., p. Me., Vt., N. H., Mass., Conn., N. Y., Va.
communis Kngt., var. *novascotiensis* Kngt., p. Nova Scotia.
univittatus Kngt., p. N. Y.
quercalba Kngt., p. Mass., N. Y., Va., Wis.
semivittatus Kngt., p. N. Y., Va. [N. C.
omnivagus Kngt., p. Ont., Vt., R. I., N. H., Mass., Conn., N. Y., Va.,
johnsoni Kngt., p. Vt., Conn., N. Y.
belfragei Reut., p. Ont., Me., Vt., Mass., N. Y.
clavigenitalis Kngt., p. Me., Mass., Md.
hirticulus Van D., p. N. Y.
canadensis Kngt., p. Ont., Wis.
canadensis Kngt., var. *binotatus* Kngt., p. N. J.
ostryae Kngt., p. Ont., Vt., Mass., N. Y.
laureae Kngt., p. N. Y., Va., N. C.
?carolinae Reur., p.

Page 343, after line 11, add

a. var. *novascotiensis* Kngt.

Knight, Can. Ent., xlviii, p. 349, 1916.

Brittain, Nova Scotia Dept. Agr., Bul. 8, 1917 (life history).

Page 346, after line 23, add

Riley, 2d Rept. Nox. Ins. Mo., p. 113, 1870, *Capsus*.

Page 350, after line 14 from bottom, add

Dickerson and Weiss, Jl. N. Y. Ent. Soc., xxiv, p. 302, 1917 (life history).

Page 367, after line 23, add

Knight, Ent. News, xxviii, p. 3, 1917.

Page 375, after line 22, add

Knight, Can. Ent., xlix, p. 249, 1917. Me.

Page 385, line 6. This note refers to preceding reference only and should have been placed at right end of line.

Page 396, after line 14, add

Genus *Heterotoma* Latr.*

Haplotype *spissicornis* Fabr. = *meriopterus* Scop.

Latreille in Cuvier, Règne Animal, edn. 2, v, p. 199, 1829.

Laporte, Essai Classif. Syst. Hémipt., p. 40, 1832.

* Reuter credits *Heterotoma* to Le Peletier et Serville, Eneyc. Méth., x, without page, but my notes on this volume do not contain the reference and I have not now access to the work. It may be necessary to write the name "*Heterotoma* Lep. & Serv., 1825."

- Burmeister, Hand. d. Ent., ii, p. 275, 1835.
 Brullé, Hist. des Ins., ix, p. 408, 1835.
 Blanchard, Hist. des Ins., Hémip., p. 140, 1840. [*cornis* Fabr. as type].
 Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (cites *spissi-*
Amyot and Serville, Hémip., p. 283, 1843.
 Spinola, Tavola Sinot., p. 43, 1850.
 Fieber, Wien. Ent. Monats., ii, p. 315, 1858.
 Fieber, Europ. Hemip., pp. 71, 290, 1861.
 Douglas and Scott, Brit. Hemip., p. 437, 1965.
 Walker, Cat. Heter., vi, pp. 44, 134, 1873.
 Reuter, Genera Cimic. Eur., p. 37, 1875.
 Reuter, Crit. Rev. Caps., i, p. 92, 1875.
 Reuter, Hemip. Gymn. Eur., iii, pp. 336, 544, 1883.
 Hübner, Synop. Deut. Blindw., ii, pp. 105, 214, 1894? [not valid].
Heterotoma Latreille, Fam. Nat. Règ. Anim., p. 422, 1825 (French form,
 Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 149, 1910.

1180½. **Heterotoma meriopterum** (Scop.)

- Scopoli, Ent. Carn., p. 131, 1763, *Cimex*.
 Rossi, Fauna Etrus., ii, p. 249, 1790, *Cimex*.
 Fieber, Europ. Hemip., p. 290, 1861.
 Douglas and Scott, Brit. Hemip., p. 438, pl. 14, fig. 5, 1865.
 Saunders, Trans. Ent. Soc. Lond. for 1875, p. 295.
 Reuter, Hemip. Gymn. Eur., iii, pp. 336, 548, pl. 5, fig. 28, 1883.
 Reuter, Rev. Synon., p. 296, No. 274, 1888.
 Saunders, Hemip. Heter. Brit. Isds., p. 295, pl. 27, fig. 7, 1892.
 Knight, Can. Ent., xlix, p. 250, 1917 (occurrence in America).
planicornis Pallas, Specil. Zool., ix, p. 23, pl. 1, fig. 13, 1772, *Cimex*.
spissicornis Fabricius, Genera Ins., p. 147, 1776, *Cimex*.
 Panzer, Fauna Germ., ii, fig. 15, 1793, *Cimex*.
 Donovan, Brit. Ins., iv, p. 71, pl. 135, 1794, *Cimex*.
 Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygacus*.
 Schellenberg, Ges. Land- u. Wasserw., p. 14, pl. 3, fig. 4, 1800, *Miris*.
 Schrank, Fauna Boic., ii, p. 88, 1801, *Cimex*.
 Fabricius, Syst. Rhyng., p. 246, 1803, *Capsus*.
 Latreille, Hist. Nat. Crust. Ins., xii, p. 233, 1804, *Capsus*.
 Laporte, Essai Classif. Syst. Hémip., p. 41, 1832.
 Herrich-Schaeffer, Nomen. Ent., p. 52, 1835, *Capsus*.
 Burmeister, Hand. d. Ent., ii, p. 276, 1835.
 Costa, Cimic. Reg. Neap., Cent. i, p. 54, fig. 11, 1838.
 Blanchard, Hist. des Ins., Hémip., p. 140, 1840.
 Amyot and Serville, Hémip., p. 283, 1843.
 Meyer-Dür, Verz. Rhyng. Schw., p. 64, 1843, *Capsus*.
 Herrich-Schaeffer, Wanz. Ins., Verz., p. 40, 1853, *Capsus*.
ater, Geoffroy in Fourcroy, Ent. Paris., p. 211, 1785, *Cimex*.
?crassicornis Fabricius, Syst. Ent., iv, p. 70, 1794, *Acanthia*.
 Fabricius, Syst. Rhyng., p. 246, 1803, *Capsus*. [609, 1806, *Cimex*.
?crassipennis Turton in Linnaeus, Syst. Nat., edn. 13 (Eng. edn.), ii, p.
 Localities: N. Y. (Europe.)

Page 397, after line 7 from bottom, add

Genus **Cyrtorhinus** Fieb.

- Logotype(?) elegantulus* Mey. = *caricis* Fall.
 Fieber, Wien. Ent. Monats., ii, p. 313, 1858.

- Fieber, Europ. Hemip., pp. 69, 284, 1861.
 Reuter, Genera Cimic. Eur., p. 31, 1875 (as subgenus).
 Reuter, Rev. Crit. Caps., i, p. 91; ii, p. 125, 1875 (as subgenus).
 Reuter, Hemip. Gymn. Eur., iii, pp. 379, 545, 1883, *Cyrtorrhinus*.
 Atkinson, Cat. Capsidae, p. 134, 1888, *Cyrtorrhinus*.
 Hübner, Synop. Deut. Blindw., ii, pp. 106, 148, 1897, *Cyrtorrhinus*.
 Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906 (names *elegantulus* Oshanin, Verz. Palae. Hemip., i, p. 835, 1910, *Cyrtorrhinus*. [type].
 Oshanin, Kat. Palae. Hemip., p. 73, 1912, *Cyrtorrhinus* (cites *caricis* as type).
Tytthus Fieber, Wien. Ent. Monats., viii, p. 82, 1864 (type *geminus* Flor.).
 || *Periscopus* Breddin, Dent. Ent. Zeit. for 1896, p. 106 (type *mundulus* [Bred.]).
Breddiniessa Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903 (n.n. for [*Periscopus* Bred.]).

1186¼. ***Cyrtorrhinus caricis*** (Fall.)

- Fallén, Monog. Cimic. Suec., p. 102, 1807, *Capsus*.
 Fallén, Hemip. Suec., Cimic., p. 123, 1829, *Capsus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 76, 1855, *Capsus*.
 Reuter, Genera Cimic. Eur., p. 31, 1875.
 Reuter, Rev. Crit. Caps., ii, p. 128, 1875.
 Thomson, Opusc. Ent., iv, p. 437, 1871, *Capsus* (*Orthotylus*).
 Reuter, Hemip. Gymn. Eur., iii, pp. 383, 555, pl. 1, fig. 10; pl. 2, fig. 3, 1883.
 Saunders, Hemip. Heter. Brit. Isds., p. 283, pl. 26, fig. 5, 1892.
 Hübner, Synop. Dept. Blindw., ii, p. 150, 1897.
 Oshanin, Verz. Palae. Hemip., i, p. 835, 1910.
 Knight, Can. Ent., xlix, p. 250, 1916 (occurrence in America).
elegantulus Meyer-Dür, Verz. Schw. Rhyn., Caps., p. 69, pl. 5, fig. 2,
 Fieber, Europ. Hemip., p. 285, 1861. [1843, *Capsus*.
 Douglas and Scott, Brit. Hemip., p. 351, 1865, *Sphyracephalus*.
chloropterus Herrich-Schaeffer, Wanz. Ins., Verz., p. 34, 1853, *Capsus*.
 Localities: Mass., N. Y., N. J. (Europe.)

1186½. ***Cyrtorrhinus pygmaeus*** (Zett.)

- Zetterstedt, Ins. Lapp., column 279, 1840, *Capsus*.
 Flor, Rhyn. Livl., i, p. 605, 1860, *Capsus*.
 Fieber, Wien. Ent. Monats., viii, p. 83, 1864, *Tytthus*.
 Reuter, Genera Cimic. Eur., p. 31, 1875.
 Reuter, Rev. Crit. Caps., ii, p. 127, 1875.
 Thomson, Opusc. Ent., iv, p. 437, 1871, *Tytthus*.
 Reuter, Hemip. Gymn. Eur., iii, pp. 381, 554, pl. 2, fig. 4, 1883.
 Saunders, Hemip. Heter. Brit. Isds., p. 283, pl. 26, fig. 6, 1892.
 Hübner, Synop. Deut. Blindw., ii, p. 149, 1897.
 Oshanin, Verz. Palae. Hemip., i, p. 836, 1910.
pellucens Boheman, Of. Vet. Akad. Forh., ix, p. 76, 1852, *Capsus*.
 Localities: Fla. (Slosson, Bradley). (Europe.)

Page 399, after line 18, add

1189½. ***Orthocephalus mutabilis*** (Fall.)

- Fallén, Monog. Cimic. Suec., p. 98, 1807, *Capsus*.
 Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus*.
 Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Halticus*.
 Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 83, *Capsus* (*Leptomicrocoris*).
 Flor, Rhyn. Livl., i, p. 567, 1860, *Capsus* (part).

- Fieber, Europ. Hemip., p. 293, 1861.
 Douglas and Scott, Brit. Hemip., p. 430, 1865.
 Reuter, Hemip. Gymn. Eur., iv, pp. 48, 165, 166, pl. 4, figs. 2, 3, 1891.
 Saunders, Hemip. Heter. Brit. Isds., p. 270, 1892.
 Hübner, Synop. Deut. Blindw., ii, p. 18, 1897.
 Knight, Can. Ent., xlix, p. 249, 1917 (occurrence in America).

?coriacea Fabricius, Genera Ins., p. 299, 1776, *Acanthia*.

Fabricius, Ent. Syst., iv, p. 69, 1794, *Acanthia*.

Fabricius, Syst. Rhyn., p. 115, 1803, *Salda*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygacus*.

Stål, Hemip. Fabr., i, p. 88, 1868.

Thomson, Opusc. Ent., iv, p. 432, 1871.

Reuter, Rev. Crit. Caps., ii, p. 94, 1875.

Saunders, Trans. Ent. Soc. Lond. for 1875, p. 289.

Reuter, Rev. Synon., p. 288, No. 263, 1888, *Lopus*.

?grylloides Goeze, Ent. Beytr., ii, p. 187, 1778, *Cimex*.

pilosus Hahn, Wanz. Ins., ii, p. 96, fig. 181, 1831, *Capsus*.

Herrich-Schaeffer, Nomen. Ent., pp. 52, 86, 1835, *Capsus*.

Meyer-Dür, Verz. Rhyn. Schw., p. 59, 1843, *Capsus*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 38, 1853, *Capsus*.

Flor, Rhyn. Livl., i, p. 564, 1860, *Capsus*.

?stygiatis Mulsant and Rey, Opusc. Ent., i, p. 151, 1852, *Capsus*.

Localities: Me. (Europe.)

Page 404, after line 17, add

Genus **Oncotylus** Fieb.

Logotype *punctipes* Reut.

Fieber, Wien. Ent. Monats., ii, p. 318, 1858.

Fieber, Europ. Hemip., pp. 72, 298, 1861.

Thomson, Opusc. Ent., i, p. 452, 1871.

Reuter, Hemip. Gymn. Eur., ii, p. 273, 1879; iii, p. 531, 1883.

Provancher, Pet. Faune Ent. Can., iii, p. 147, 1887.

Kirkaldy, Trans. Am. Ent., Soc., xxxii, p. 126, 1904.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

Anoterops Fieber, Wien. Ent. Monats., ii, p. 317, 1858.

Fieber, Europ. Hemip., pp. 72, 297, 1861.

Cylindromelus Fieber, Europ. Hemip., p. 393, 1861.

Page 412, after line 6, add

Leonard, Jl. N. Y. Ent. Soc., xxiii, p. 193, 1915 (life history).

Page 415, line 19, for 1265 read 1256.

Page 418, after line 12, add

Leonard, Jl. N. Y. Ent. Soc., xxiii, p. 195 (life history).

Page 419, after line 9 from bottom, add

Knight, Can. Ent., xlix, p. 248, 1917. N. Fudl., N. Y., Colo.

Page 427, after line 20, add

Bueno, Ent. News, xxviii, p. 201, 1917 (life history).

Olsen, Bul. Brookl. Ent. Soc., xii, p. 21, 1917 (life history).

Page 427, after line 15 from bottom, add

Osborn and Drake, Ohio Nat., xv, p. 503, 1915. Ohio.

Page 428, after line 19, add

Bueno, Ent. News, xxviii, p. 295, 1917 (life history).

Page 430, after line 3, add

Osborn and Drake, Ohio Nat., xv, p. 503, 1915. Ohio.

- Page 435, line 10, for *Boccula* read *Baccula*.
 Page 447, after line 2, add
 Parshley, Can. Ent., xlix, p. 48, 1917 (on shore drift).
 Page 450, after line 18, add
 Hungerford, Ent. News, xxviii, p. 179, 1917 (life history).
 Page 452, after line 1, add
 Hungerford, Ent. News, xxviii, p. 267, 1917 (life history).
 Page 454, after line 4 from bottom, add
 Hungerford, Ent. News, xxviii, p. 179, 1917 (life history).
 Page 456, line 11, for **Ploa** read **Plea**.
 Page 471, after line 2, add
 Harvey, Can. Ent., xxxix, p. 17, 1907 (life history).
 Page 477, after line 11, add
 Hungerford, Jl. N. Y. Ent. Soc., xxv, pp. 1, 112, 1917 (habits, life history).
 Page 487, line 23, for SECTION read SERIES.
 Page 501, after line 16, add
 Lander, Jl. N. Y. Ent. Soc., iii, p. 33, 1895 (domed burrows).
 Page 502, line 3, for Calif. read Ariz.
 Page 503 line, 4 from bottom, for **Okagana** read **Okanagana**.
 Page 504, after line 7 from bottom, add
 Davis, Jl. N. Y. Ent. Soc., xxv, p. 6, 1917.
 Page 523, after line 23, add
 Brittain, Proc. Ent. Soc. Nova Scot. for 1917, p. 34.
 Page 524, after line 15, add
 Brittain, Proc. Ent. Soc. Nova Scot. for 1917, p. 36.
 Page 563, after line 9, add
 Matausch, Jl. N. Y. Ent. Soc., xxiv, p. 151, 1916 (nymphs).
 Page 569, after line 10, add
 Gibson, Can. Ent., xlix, p. 75, 1917 (lists additional Mo. species).
 Page 580, after line 15 from bottom, add
 Brittain and Saunders, Can. Ent., xlix, p. 149, 1917 (with plate).
 Page 582, line 1, for p. 45 read p. 82.
 Page 604, after line 12 from bottom, add
 Gibson, U. S. Dept. Agr., Bul. 254, 1915 (life history).
 Page 605, line 25, add (Fh.)
 Page 616, line 16, for Ann. read Anal.; for Natl. read Naenl.
 Page 623, line 13, for (Van D.) read (Fieb.), and add
 Fieber, Kat. Eur. Cicad., p. 10, 1872, *Doridiae*.
 Page 658, after line 9 from bottom, add
 2142½. **Euscelis ozarcensis** Gibs.
 Gibson, Can. Ent., xlix, p. 184, 1917.
 Locality: Mo.
 Page 679, line 11 from bottom, for **gilletti** read **gillettii**.
 Page 692, after line 14, add
 2355½. **Tinobregmus moodii** Gibs.
 Gibson, Can. Ent., xlix, p. 183, 1917.
 Locality: Mo.
 Page 708, line 9 from bottom, for **bifasciata** (G. & B.), read
a. var. gillettei n.n.—and change next line to read
 || *bifasciata* Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba*.
 and indent next five lines.

Page 710, line 34, probably *||* should read *†*, and add date 1874.

Page 711, after line 16, add [history].

Brittain and Saunders, Proc. Ent. Soc. Nova Scot. for 1917, p. 48 (life

Page 711, after line 25, add

2437¹/₂. *Empoa modesta* (Gibs.)

Gibson, Can. Ent., xlix, p. 184, 1917, *Typhlocyba*.

Locality: Mo.

Page 718, line 17, for Ann. Zool. Bot., read Ann. Mag. Nat. Hist.

Page 720, after line 5, add

Gibson, Bul. Brookl. Ent. Soc., xii, p. 69, 1917 (key to species).

Page 726, line 16, add at end *Loxophora*.

Page 731, after line 14 from bottom, add

Scott, Ent. Mo. Mag., vii, p. 119, 1870.

Page 734, after line 29, add

Scott, Ent. Mo. Mag., vii, p. 121, 1870.

Page 766, after line 4, add

Spinola, Ann. Soc. Ent. Fr., viii, p. 333, 1839, *Delphax*.

Page 773, after line 8 from bottom, add

Scott, Ent. Mo. Mag., vii, pp. 23, 25, 1870.

Page 780, after line 24, add

2803¹/₂. *Dicranotrops cubana* Crawford.

Crawford, Proc. U. S. Natl. Mus., xlv, p. 595, 1914.

Weiss, Ent. News, xxviii, p. 215, 1917.

Localities: N. J. (Cuba.)

Page 781, line 9 from bottom, for 1906 read 1806.

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†*emarginata* Emms., *Entilia*, 1716.
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 †fasciatus Van D., Scaphoideus, 1981.
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 †fenestratus Prov., Bythoscopus, 1831.
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 †fenestratus Van D., Cyrtolobus, 1667.
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- flaccida* Uhl., *Agallia*, 1764.
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†*flavescens* Van D., *Pediopsis*, 1817.
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flaviceps Riley, *Dicrocephala*, 1881.
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†*flavicollis* Van D., *Loxa*, 171.
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flavidus Sign., *Paraboloeratus*, 1957.
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flavilineata Fh., *Gypsona*, 1904.
†*flavilineata* Spångb., *Gypsona*, 1898.
†*flavipennis* Estr., *Aphalara*, 2825.
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†*flavipes* Fieb., *Salda*, 1320.
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flavo-linatus Sign., *Aeucephalus*, 1935.
flavomaculatus (Fabr.), *Globiceps*, 1161.
†*flavomaculatus* Prov., *Globiceps*, 917.
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flavomarginata Thom., *Galgupha*, 37.
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flavo-rictata Stål, *Bruchomorpha*, 2585.
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floridana (Walk.), *Lopidea*, 1148.
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†*forcipatus* Fieb., *Notus*, 2393.
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†*forticornis* Wirtn., *Rhinacloa*, 1249.
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†*fraterculus* Prov., *Harmostes*, 461.

- fraterculus (Say), Harmostes, 339.
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†*pipistrelli* Chitt., *Cimex*, 837.
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†*plutonius* Prov., *Athysanus*, 2138.
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†*propinquus* Prov., *Coriscus*, 818.
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†*providus* Bak., *Nysius*, 466.
†*providus* Uhl., *Nysius*, 461.
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†*pteridis* Uhl., *Bryocoris*, 1140.
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†*pulchellus* Prov., *Oncotylus*, 1172.
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- ‡*serrata* Wolff, *Halys*, 89.
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serguttata Walk., *Cicada*, 1501a.
serguttatus (Prov.), *Macrotylus*, 1200.
sermculata Walk., *Membracis*, 1731.
sexmaculatus G. & B., *Deltocephalus*, 2069.
sexmaculatus (Barb.), *Horcias*, 1001.
sex-maculatus Stål, *Oncopeltus*, 433.
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6-punctatus Prov., *Jassus*, 2063.
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sibylatrix Berg., *Tympanotripes*, 1507.
siccifolius Uhl., *Bythoscopus*, 1767.
sicula A. & S., *Polyglypta*, 1715.
siculus Sign., *Corizus*, 343a.
sidæ (Fabr.), *Corizus*, 346.
sideroxyli Rly., *Ceropsylla*, 2881.
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signata (Reut.), *Neobornus*, 1041c.
signata Ball, *Uhleriella*, 1964.
signatifrons Van D., *Deltocephalus*, 2066.
signatus Uhl., *Agalliasites*, 1266.
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signatus Mch., *Platoides*, 2668.
signatus Heid., *Isometopus*, 1275.
signifer Reut., *Lygus*, 1014a.
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signoreti (Guer.), *Pentacera*, 1316.
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similaris (S. & G.), *Tibicen*, 1478.
similis Say, *Aradus*, 371.
similis Stål, *Heza*, 795.
similis (Walk.), *Kolla*, 1862.
similis Bark., *Perigenes*, 544.
similis Lth., *Phlepsius*, 2235½.
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similis Crawf., *Trioza*, 2863.
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simplex (Reut.), *Engytatus*, 1113.
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simplicia Dist., *Pundatuogya*, 2738.
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simplicipes Uhl., *Ploiaria*, 702.
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simulans Heid., *Leptodictya*, 663.
simulans Stål, *Phymata*, 690.
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 ‡*sinuata* Fh., *Entilia*, 1716.
 ‡*sinuata* Buckt., *Entylia*, 1716a.
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 ‡*sinuatus* Guer., *Alydus*, 318.
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slossoni Van D., *Eutettix*, 2168.
slossoni Van D., *Ischnodemus*, 493.
slossoni Ball, *Liburnia*, 2759.
slossoni Barb., *Ligyrocoris*, 535.
slossoni Ball, *Myndus*, 2569.
slossoni Van D., *Oliarns*, 2537.
slossoni Ball, *Phlepsius*, 2241.
slossoni Van D., *Platymetopius*, 2018.
slossoni Osb., *Saldoidea*, 1346.
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 ‡*smaragdula* Duf., *Pentaloma*, 178.
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snowi Ball, *Eutettix*, 2187.
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snowi Van D., *Narnia*, 256.
snowi Ball, *Oecleus*, 2561.
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sobrinus Uhl., *Cnemodius*, 568.
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- socialis* (Wht.), Tenagobia, 1415.
socius Stål, *Largus*, 619.
socius Uhl., *Zelus*, 774.
sodalicus (Uhl.), *Rhyparochromus*, 581.
solani Heid., *Gargaphia*, 658.
solani Heid., *Irbisia*, 975a.
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solida Uhl., *Lygaeosoma*, 442.
solidaginis (Walk.), *Phlepsius*, 2246.
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solutus Montd., *Geocoris*, 500b.
sonans Walk., *Cicada*, 1507.
sonchi Fstr., *Aphalara*, 2825.
sonchi Crawford, *Hemitrioza*, 2883.
sonora Walk., *Cicada*, 1484.
sonorae G. & B., *Thamnotettix*, 2275.
sonorana Kirk., *Mistharnophantia*, 2663.
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sordida (Uhl.), *Banasa*, 186.
sordida Uhl., *Lepyronia*, 1557.
sordida (Van D.), *Macropsis*, 1822.
sordidata Uhl., *Cicada*, 1489.
sordidipennis Stål, *Myndus*, 2566.
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sordulentus Uhl., *Monorachis*, 2542.
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spartini Osb., *Megamelanus*, 2713.
sparsus Curt., *Acuccephalus*, 1933.
spathula Rey, *Corizus*, 343.
spatulatus O. & B., *Chlorotettix*, 2326.
spatulatus Van D., *Phlepsius*, 2196.
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spinifera Fab., *Aphalaroida*, 2833.
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spinosa Dall., *Arma*, 227.
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spinosissima Kol., *Pygolampis*, 720.
spinosula Stål, *Fitchia*, 790.
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spretta Godg., *Telamona*, 1647a.
spumarius Fall., *Cercopis*, 1560a.
spurea Stål, *Pygolampis*, 722.
spureulus Stål, *Euschistus*, 130.
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stalii Sign., *Conorhinus*, 742.
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stalii (Reut.), *Lyteocoris*, 843.
stallii Uhl., *Pachycoris*, 4d.
steinegeri (Ashm.), *Liburnia*, 2784.
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stellata (Curt.), *Chiloxanthus*, 1319.
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stigmatus (Say), *Cixius*, 2549.
stigmatus Uhl., *Cixius*, 2545.
stigmata (Uhl.), *Enropiella*, 1252.
stimulatrix Emms., *Sinea*, 797.
stimulea Van D., *Ceresa*, 1575.
stolatus Ball, *Chlorotettix*, 2338.
stolida Fairm., *Membracis*, 1731.
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stollii H.S., *Zaitia*, 1404.
straminea (Osborne), *Mesannia*, 1973.
stamineus Walk., *Capsus*, 985.
stramineus S. & D., *Thamnotettix*, 2305½.
stria Latr., *Acanthia*, 1332.
stria Smith, *Sirthenea*, 750.
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striata Fabr., *Cercopis*, 1933.
striata Fabr., *Fulgora*, 2766.
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striata (Pfeh.), *Psylla*, 2930.
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striatella Fabr., *Cercopis*, 1933.
striatipes (Hald.), *Okanagana*, 1526.
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- stygica Say, *Northra*, 1411.
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 †*stygius* Uhl., *Mononyx*, 1410.
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 stylifera Pich., *Trioza*, 2873.
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 †*subbifasciatus* Prov., *Idiocerus*, 1795.
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 subnitens S. & D., *Idiocerus*, 1781½.
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 subpicus Stål, *Apionerus*, 759.
 subrufescens (Walk.), *Banasa*, 183.
 subrufus Dist., *Harmostes*, 337.
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 †*subulata* Prov., *Ceresa*, 1577.
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 †*succinctus* Osh., *Largus*, 616.
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 †*sulcifrons* D. & S., *Lygus*, 1015.
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 sutilis (Uhl.), *Arctocorixa*, 1453.
 suturalis Mch., *Bruchomorpha*, 2586.
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suturalis (Fabr.), *Cimex*, 632.
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 suturalis Fh., *Idiocerus*, 1779.
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 †*sylvaticus* Panz., *Lygacus*, 589.
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 †*sylvestris* Osh., *Ligyrocoris*, 537.
 †*sylvestris* Stål, *Ligyrocoris*, 538.
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 †*tabida* Bueno, *Cymodema*, 484.
 †*tabida* (Uhl.), *Cymodema*, 487.
 †*tabida* Banks, *Monanthia*, 662.
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 †*tabidus* Prov., *Cymus*, 1485.
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tarsalis Dall., *Coccus*, 139.
 tarsalis (Reut.), *Trigonotylus*, 893.
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 temnostethoides Reut., *Asthenidea*, 852.
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 tenebrosus (Dist.), *Sixeonotus*, 1075.
 tenebrosus (Dist.), *Gypsona*, 1912.
tenella Walk., *Tettigonia*, 1859.
 tenellus (Bak.), *Eutettix*, 2178.
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 tenuis (Reut.), *Engytatus*, 1115.
tenuis Reut., *Trigonotylus*, 892.
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- †*tessellata* Gill., *Empoasca*, 2417.
tessellatus Van D., *Xestocephalus*, 1942.
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texana (Davis), *Tibicen*, 1489½.
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thoracicus Guer., *Holotus*, 2700.
thoracicus Van D., *Horecias*, 1000g.
thoracicus Dall., *Metapodius*, 237.
thoracicus Stål, *Rasalus*, 748.
thymi (Wolff), *Nysius*, 468.
tibialis H.S., *Anisocelis*, 248.
†*tibialis* Uhl., *Corimelaena*, 37.
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tibialis Van D., *Orthotylus*, 1169½.
tibialis Reut., *Phytocoris*, 952.
†*tibicen* Germ., *Cicada*, 1473.
tigrinus Ball, *Phlepsius*, 2208.
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tiliae (Walsh), *Gargaphia*, 654.
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tipuloides (DeG.), *Leptocoris*, 316.
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torridus Ball, *Platymetopius*, 2030a.
torva Fh., *Eutylia*, 1716a.
townsendi (Uhl.), *Tibicen*, 1471.
translucens Tuck., *Orthotylus*, 1174.
transversa Fabr., *Cercopis*, 1933.
transversa Van D., *Dictyssa*, 2609.
transversa Van D., *Loxophora*, 2497.
transversa (Walk.), *Tibicen*, 1482.
transversalis Geof., *Cicada*, 1934.
transversalis Fabr., *Cimex*, 1036.
transversalis Mch., *Thionia*, 2633.
‡*transversus* Thoms., *Capsus*, 1036.
transversus Thamb., *Cimex*, 178b.
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tripunctata Ball, *Pagaronia*, 1882.
triangulata Davis, *Okanagana*, 1527.
tricarinata (Say), *Stobaera*, 2751.
tricarinata Prov., *Embolonia*, 2583.
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tricolor Van D., *Dieraneura*, 2391.
tricolor (Van D.), *Neoborus*, 1043.
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trilineata (Prov.), *Arctocoris*, 1455.
trilineata Kby., *Neottiglossa*, 146.
trilineatus Say, *Membracis*, 1695.
trilineatus Ball, *Platymetopius*, 2017½.
trimaculata (Fh.), *Macropsis*, 1821.
†*trimaculata* Van D., *Pediopsis*, 1819.
trimaculata (Crawf.), *Psylla*, 2938.
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